

## FUNZIONI RAZIONALI FRATTE - DOMINIO e CODOMINIO

A Cura di Enzo Exposito

| FUNZIONE                                       | n = numeratore  | Equazione - Tabella   | Tabella Cartesiana |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
|--|-----------------|---|--------------------|---------|--------|-------|-------|-------|-------|--------|---|--|------|--------|---|-------|---|-------|---|-------|------|------|-------|--|--|--|--|--|---|----|----|-------|---|-------|------|------|---|-------|-------|-------|--------|--|--------|-------|-------|----|
| <b>Raz Fratta 1° Grado</b><br>$\frac{1}{x}$    | <b>n &gt; 0</b> | $y = \frac{1}{x} \quad / \quad x$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>x</th><th>y=n/x</th></tr> <tr><td>-4</td><td>-0,25</td></tr> <tr><td>-1</td><td>-1,00</td></tr> <tr><td>-0,25</td><td>-4,00</td></tr> <tr><td>0</td><td></td></tr> <tr><td>0,25</td><td>4,00</td></tr> <tr><td>1</td><td>1,00</td></tr> <tr><td>4</td><td>0,25</td></tr> </table>             | x                  | y=n/x   | -4     | -0,25 | -1    | -1,00 | -0,25 | -4,00  | 0 |  | 0,25 | 4,00   | 1 | 1,00  | 4 | 0,25  | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>y &gt; 0</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>x</th><td>-4</td><td>-1</td><td>-0,25</td><td>0</td><td>4,00</td><td>1,00</td><td>0,25</td><td>→</td></tr> <tr><th>y &lt; 0</th><td>-0,25</td><td>-1,00</td><td>-4,00</td><td></td><td>0,25</td><td>1</td><td>4</td><td>x*</td></tr> </table>      | y > 0 |      |      |       |  |  |  |  |  | x | -4 | -1 | -0,25 | 0 | 4,00  | 1,00 | 0,25 | → | y < 0 | -0,25 | -1,00 | -4,00  |  | 0,25   | 1     | 4     | x* |
| x  | y=n/x           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -4   | -0,25           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -1   | -1,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -0,25  | -4,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0,25   | 4,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 1  | 1,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 4  | 0,25            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y > 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| x  | -4              | -1  | -0,25              | 0       | 4,00   | 1,00  | 0,25  | →     |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y < 0  | -0,25           | -1,00   | -4,00              |         | 0,25   | 1     | 4     | x*    |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| <b>Raz Fratta 1° Grado</b><br>$-\frac{1}{x}$   | <b>n &lt; 0</b> | $y = \frac{-1}{x} \quad / \quad x$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>x</th><th>y=n/x</th></tr> <tr><td>-4</td><td>0,25</td></tr> <tr><td>-1</td><td>1,00</td></tr> <tr><td>-0,25</td><td>4,00</td></tr> <tr><td>0</td><td></td></tr> <tr><td>0,25</td><td>-4,00</td></tr> <tr><td>1</td><td>-1,00</td></tr> <tr><td>4</td><td>-0,25</td></tr> </table>            | x                  | y=n/x   | -4     | 0,25  | -1    | 1,00  | -0,25 | 4,00   | 0 |  | 0,25 | -4,00  | 1 | -1,00 | 4 | -0,25 | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>y &gt; 0</th><td>0,25</td><td>1,00</td><td>4,00</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>x</th><td>-4</td><td>-1</td><td>-0,25</td><td>0</td><td>0,25</td><td>1</td><td>4</td><td>→</td></tr> <tr><th>y &lt; 0</th><td></td><td></td><td></td><td></td><td>-4,00</td><td>-1,00</td><td>-0,25</td><td>x*</td></tr> </table>      | y > 0 | 0,25 | 1,00 | 4,00  |  |  |  |  |  | x | -4 | -1 | -0,25 | 0 | 0,25  | 1    | 4    | → | y < 0 |       |       |        |  | -4,00  | -1,00 | -0,25 | x* |
| x  | y=n/x           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -4   | 0,25            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -1   | 1,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -0,25  | 4,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0,25   | -4,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 1  | -1,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 4  | -0,25           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y > 0  | 0,25            | 1,00  | 4,00               |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| x  | -4              | -1  | -0,25              | 0       | 0,25   | 1     | 4     | →     |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y < 0  |                 |   |                    |         | -4,00  | -1,00 | -0,25 | x*    |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| <b>Raz Fratta 2° Grado</b><br>$\frac{1}{x^2}$  | <b>n &gt; 0</b> | $y = \frac{1}{x^2} \quad / \quad x^2$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>x</th><th>y=n/x^2</th></tr> <tr><td>-3</td><td>0,11</td></tr> <tr><td>-1</td><td>1,00</td></tr> <tr><td>-0,25</td><td>16,00</td></tr> <tr><td>0</td><td></td></tr> <tr><td>0,25</td><td>16,00</td></tr> <tr><td>1</td><td>1,00</td></tr> <tr><td>3</td><td>0,11</td></tr> </table>        | x                  | y=n/x^2 | -3     | 0,11  | -1    | 1,00  | -0,25 | 16,00  | 0 |  | 0,25 | 16,00  | 1 | 1,00  | 3 | 0,11  | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>y &gt; 0</th><td>0,11</td><td>1,00</td><td>16,00</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>x</th><td>-3</td><td>-1</td><td>-0,25</td><td>0</td><td>16,00</td><td>1,00</td><td>0,11</td><td>→</td></tr> <tr><th>y &lt; 0</th><td></td><td></td><td></td><td></td><td>0,25</td><td>1</td><td>3</td><td>x*</td></tr> </table>       | y > 0 | 0,11 | 1,00 | 16,00 |  |  |  |  |  | x | -3 | -1 | -0,25 | 0 | 16,00 | 1,00 | 0,11 | → | y < 0 |       |       |        |  | 0,25   | 1     | 3     | x* |
| x  | y=n/x^2         |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -3   | 0,11            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -1   | 1,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -0,25  | 16,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0,25   | 16,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 1  | 1,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 3  | 0,11            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y > 0  | 0,11            | 1,00  | 16,00              |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| x  | -3              | -1  | -0,25              | 0       | 16,00  | 1,00  | 0,11  | →     |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y < 0  |                 |   |                    |         | 0,25   | 1     | 3     | x*    |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| <b>Raz Fratta 2° Grado</b><br>$-\frac{1}{x^2}$ | <b>n &lt; 0</b> | $y = \frac{-1}{x^2} \quad / \quad x^2$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>x</th><th>y=n/x^2</th></tr> <tr><td>-3</td><td>-0,11</td></tr> <tr><td>-1</td><td>-1,00</td></tr> <tr><td>-0,25</td><td>-16,00</td></tr> <tr><td>0</td><td></td></tr> <tr><td>0,25</td><td>-16,00</td></tr> <tr><td>1</td><td>-1,00</td></tr> <tr><td>3</td><td>-0,11</td></tr> </table> | x                  | y=n/x^2 | -3     | -0,11 | -1    | -1,00 | -0,25 | -16,00 | 0 |  | 0,25 | -16,00 | 1 | -1,00 | 3 | -0,11 | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>y &gt; 0</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>x</th><td>-3</td><td>-1</td><td>-0,25</td><td>0</td><td>0,25</td><td>1</td><td>3</td><td>→</td></tr> <tr><th>y &lt; 0</th><td>-0,11</td><td>-1,00</td><td>-16,00</td><td></td><td>-16,00</td><td>-1,00</td><td>-0,11</td><td>x*</td></tr> </table> | y > 0 |      |      |       |  |  |  |  |  | x | -3 | -1 | -0,25 | 0 | 0,25  | 1    | 3    | → | y < 0 | -0,11 | -1,00 | -16,00 |  | -16,00 | -1,00 | -0,11 | x* |
| x  | y=n/x^2         |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -3   | -0,11           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -1   | -1,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -0,25  | -16,00          |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0,25   | -16,00          |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 1  | -1,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 3  | -0,11           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y > 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| x  | -3              | -1  | -0,25              | 0       | 0,25   | 1     | 3     | →     |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y < 0  | -0,11           | -1,00   | -16,00             |         | -16,00 | -1,00 | -0,11 | x*    |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| <b>Raz Fratta 3° Grado</b><br>$\frac{1}{x^3}$  | <b>n &gt; 0</b> | $y = \frac{1}{x^3} \quad / \quad x^3$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>x</th><th>y=n/x^3</th></tr> <tr><td>-3</td><td>-0,04</td></tr> <tr><td>-1</td><td>-1,00</td></tr> <tr><td>-0,25</td><td>-64,00</td></tr> <tr><td>0</td><td></td></tr> <tr><td>0,25</td><td>64,00</td></tr> <tr><td>1</td><td>1,00</td></tr> <tr><td>3</td><td>0,04</td></tr> </table>     | x                  | y=n/x^3 | -3     | -0,04 | -1    | -1,00 | -0,25 | -64,00 | 0 |  | 0,25 | 64,00  | 1 | 1,00  | 3 | 0,04  | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>y &gt; 0</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>x</th><td>-3</td><td>-1</td><td>-0,25</td><td>0</td><td>64,00</td><td>1,00</td><td>0,04</td><td>→</td></tr> <tr><th>y &lt; 0</th><td>-0,04</td><td>-1,00</td><td>-64,00</td><td></td><td>0,25</td><td>1</td><td>3</td><td>x*</td></tr> </table>    | y > 0 |      |      |       |  |  |  |  |  | x | -3 | -1 | -0,25 | 0 | 64,00 | 1,00 | 0,04 | → | y < 0 | -0,04 | -1,00 | -64,00 |  | 0,25   | 1     | 3     | x* |
| x  | y=n/x^3         |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -3   | -0,04           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -1   | -1,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -0,25  | -64,00          |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0,25   | 64,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 1  | 1,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 3  | 0,04            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y > 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| x  | -3              | -1  | -0,25              | 0       | 64,00  | 1,00  | 0,04  | →     |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y < 0  | -0,04           | -1,00   | -64,00             |         | 0,25   | 1     | 3     | x*    |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| <b>Raz Fratta 3° Grado</b><br>$-\frac{1}{x^3}$ | <b>n &lt; 0</b> | $y = \frac{-1}{x^3} \quad / \quad x^3$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>x</th><th>y=n/x^3</th></tr> <tr><td>-3</td><td>0,04</td></tr> <tr><td>-1</td><td>1,00</td></tr> <tr><td>-0,25</td><td>64,00</td></tr> <tr><td>0</td><td></td></tr> <tr><td>0,25</td><td>-64,00</td></tr> <tr><td>1</td><td>-1,00</td></tr> <tr><td>3</td><td>-0,04</td></tr> </table>    | x                  | y=n/x^3 | -3     | 0,04  | -1    | 1,00  | -0,25 | 64,00  | 0 |  | 0,25 | -64,00 | 1 | -1,00 | 3 | -0,04 | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><th>y &gt; 0</th><td>0,04</td><td>1,00</td><td>64,00</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><th>x</th><td>-3</td><td>-1</td><td>-0,25</td><td>0</td><td>0,25</td><td>1</td><td>3</td><td>→</td></tr> <tr><th>y &lt; 0</th><td></td><td></td><td></td><td></td><td>-64,00</td><td>-1,00</td><td>-0,04</td><td>x*</td></tr> </table>    | y > 0 | 0,04 | 1,00 | 64,00 |  |  |  |  |  | x | -3 | -1 | -0,25 | 0 | 0,25  | 1    | 3    | → | y < 0 |       |       |        |  | -64,00 | -1,00 | -0,04 | x* |
| x  | y=n/x^3         |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -3   | 0,04            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -1   | 1,00            |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| -0,25  | 64,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0  |                 |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 0,25   | -64,00          |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 1  | -1,00           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| 3  | -0,04           |   |                    |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y > 0  | 0,04            | 1,00  | 64,00              |         |        |       |       |       |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| x  | -3              | -1  | -0,25              | 0       | 0,25   | 1     | 3     | →     |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |
| y < 0  |                 |   |                    |         | -64,00 | -1,00 | -0,04 | x*    |       |        |   |  |      |        |   |       |   |       |   |       |      |      |       |  |  |  |  |  |   |    |    |       |   |       |      |      |   |       |       |       |        |  |        |       |       |    |

**FUNZIONE**      **n = numeratore**

**Raz Fratta 4° Grado**      **n > 0**  
 $\frac{1}{x^4}$

**Raz Fratta 4° Grado**      **n < 0**  
 $\frac{-1}{x^4}$

**Raz Fratta 5° Grado**      **n > 0**  
 $\frac{1}{x^5}$

**Raz Fratta 5° Grado**      **n < 0**  
 $\frac{-1}{x^5}$

**Raz Fratta 6° Grado**      **n > 0**  
 $\frac{1}{x^6}$

**Raz Fratta 6° Grado**      **n < 0**  
 $\frac{-1}{x^6}$

**Equazione - Tabella**  
**A Cura di Enzo Expsyto**

$y = \frac{1}{x^4}$

| x     | y = n/x <sup>4</sup> |
|-------|----------------------|
| -3    | 0,012                |
| -1    | 1,00                 |
| -0,25 | 256,00               |
| 0     |                      |
| 0,25  | 256,00               |
| 1     | 1,00                 |
| 3     | 0,012                |

$y = \frac{-1}{x^4}$

| x     | y = n/x <sup>4</sup> |
|-------|----------------------|
| -3    | -0,012               |
| -1    | -1,00                |
| -0,25 | -256,00              |
| 0     |                      |
| 0,25  | -256,00              |
| 1     | -1,00                |
| 3     | -0,012               |

$y = \frac{1}{x^5}$

| x     | y = n/x <sup>5</sup> |
|-------|----------------------|
| -3    | -0,004               |
| -1    | -1,00                |
| -0,25 | -1024,00             |
| 0     |                      |
| 0,25  | 1024,00              |
| 1     | 1,00                 |
| 3     | 0,004                |

$y = \frac{-1}{x^5}$

| x     | y = n/x <sup>5</sup> |
|-------|----------------------|
| -3    | 0,004                |
| -1    | 1,00                 |
| -0,25 | 1024,00              |
| 0     |                      |
| 0,25  | -1024,00             |
| 1     | -1,00                |
| 3     | -0,004               |

$y = \frac{1}{x^6}$

| x     | y = n/x <sup>6</sup> |
|-------|----------------------|
| -3    | 0,0014               |
| -1    | 1,00                 |
| -0,25 | 4096,00              |
| 0     |                      |
| 0,25  | 4096,00              |
| 1     | 1,00                 |
| 3     | 0,0014               |

$y = \frac{-1}{x^6}$

| x     | y = n/x <sup>6</sup> |
|-------|----------------------|
| -3    | -0,0014              |
| -1    | -1,00                |
| -0,25 | -4096,00             |
| 0     |                      |
| 0,25  | -4096,00             |
| 1     | -1,00                |
| 3     | -0,0014              |

**Tabella Cartesiana**

|         |       |      |        |                  |        |      |       |                  |
|---------|-------|------|--------|------------------|--------|------|-------|------------------|
| $y > 0$ | 0,012 | 1,00 | 256,00 | ↑ y <sup>+</sup> | 256,00 | 1,00 | 0,012 |                  |
| $y = 0$ | -3    | -1   | -0,25  | 0                | 0,25   | 1    | 3     | → x <sup>+</sup> |
| $y < 0$ |       |      |        | ↓ y <sup>-</sup> |        |      |       |                  |

|         |        |       |         |                  |         |       |        |                  |
|---------|--------|-------|---------|------------------|---------|-------|--------|------------------|
| $y > 0$ |        |       |         | ↑ y <sup>+</sup> |         |       |        |                  |
| $y = 0$ | -3     | -1    | -0,25   | 0                | 0,25    | 1     | 3      | → x <sup>+</sup> |
| $y < 0$ | -0,012 | -1,00 | -256,00 | ↓ y <sup>-</sup> | -256,00 | -1,00 | -0,012 |                  |

|         |        |       |          |                  |         |      |       |                  |
|---------|--------|-------|----------|------------------|---------|------|-------|------------------|
| $y > 0$ |        |       |          | ↑ y <sup>+</sup> | 1024,00 | 1,00 | 0,004 |                  |
| $y = 0$ | -3     | -1    | -0,25    | 0                | 0,25    | 1    | 3     | → x <sup>+</sup> |
| $y < 0$ | -0,004 | -1,00 | -1024,00 | ↓ y <sup>-</sup> |         |      |       |                  |

|         |       |      |         |                  |           |       |        |                  |
|---------|-------|------|---------|------------------|-----------|-------|--------|------------------|
| $y > 0$ | 0,004 | 1,00 | 1024,00 | ↑ y <sup>+</sup> |           |       |        |                  |
| $y = 0$ | -3    | -1   | -0,25   | 0                | 0,25      | 1     | 3      | → x <sup>+</sup> |
| $y < 0$ |       |      |         | ↓ y <sup>-</sup> | -1024,000 | -1,00 | -0,004 |                  |

|         |        |      |         |                  |         |      |        |                  |
|---------|--------|------|---------|------------------|---------|------|--------|------------------|
| $y > 0$ | 0,0014 | 1,00 | 4096,00 | ↑ y <sup>+</sup> | 4096,00 | 1,00 | 0,0014 |                  |
| $y = 0$ | -3     | -1   | -0,25   | 0                | 0,25    | 1    | 3      | → x <sup>+</sup> |
| $y < 0$ |        |      |         | ↓ y <sup>-</sup> |         |      |        |                  |

|         |         |       |          |                  |          |       |         |                  |
|---------|---------|-------|----------|------------------|----------|-------|---------|------------------|
| $y > 0$ |         |       |          | ↑ y <sup>+</sup> |          |       |         |                  |
| $y = 0$ | -3      | -1    | -0,25    | 0                | 0,25     | 1     | 3       | → x <sup>+</sup> |
| $y < 0$ | -0,0014 | -1,00 | -4096,00 | ↓ y <sup>-</sup> | -4096,00 | -1,00 | -0,0014 |                  |