

| | | | | | |
|-----------------------------------|----------|----------|----------|----------|----------|
| x | 2 | 2,1 | 2,01 | 2,001 | 2,0001 |
| $(x^2 - 4)$ | 0,000000 | 0,410000 | 0,040100 | 0,004001 | 0,000400 |
| $(x - 1)(x - 2)$ | 0,000000 | 0,110000 | 0,010100 | 0,001001 | 0,000100 |
| $f(x) = \frac{x^2-4}{(x-1)(x-2)}$ | #DIV/0! | 3,727273 | 3,970297 | 3,997003 | 3,999700 |

$$x \cong 2, \quad x > 2, \quad f(x) \cong ???$$

| | | | | | |
|-----------------------------------|----------|-----------|-----------|-----------|-----------|
| x | 2 | 1,9 | 1,99 | 1,999 | 1,9999 |
| $(x^2 - 4)$ | 0,000000 | -0,390000 | -0,039900 | -0,003999 | -0,000400 |
| $(x - 1)(x - 2)$ | 0,000000 | -0,090000 | -0,009900 | -0,000999 | -0,000100 |
| $f(x) = \frac{x^2-4}{(x-1)(x-2)}$ | #DIV/0! | 4,333333 | 4,030303 | 4,003003 | 4,000300 |

$$x \cong 2, \quad x < 2, \quad f(x) \cong ???$$

| | | | | | |
|-----------------------------------|----------|----------|-----------|------------|-------------|
| x | 1 | 1,1 | 1,01 | 1,001 | 1,0001 |
| $(x^2 - 4)$ | -3,00000 | -2,79000 | -2,97990 | -2,99800 | -2,99980 |
| $(x - 1)(x - 2)$ | 0,00000 | -0,09000 | -0,00990 | -0,00100 | -0,00010 |
| $f(x) = \frac{x^2-4}{(x-1)(x-2)}$ | #DIV/0! | 31,00000 | 301,00000 | 3001,00000 | 30001,00000 |

$$x \cong 1, \quad x > 1, \quad f(x) \cong ???$$

| | | | | | |
|-----------------------------------|----------|-----------|------------|-------------|--------------|
| x | 1 | 0,9 | 0,99 | 0,999 | 0,9999 |
| $(x^2 - 4)$ | -3,00000 | -3,19000 | -3,01990 | -3,00200 | -3,00020 |
| $(x - 1)(x - 2)$ | 0,00000 | 0,11000 | 0,01010 | 0,00100 | 0,00010 |
| $f(x) = \frac{x^2-4}{(x-1)(x-2)}$ | #DIV/0! | -29,00000 | -299,00000 | -2999,00000 | -29999,00000 |

$$x \cong 1, \quad x < 1, \quad f(x) \cong ???$$