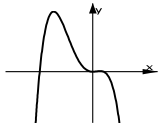


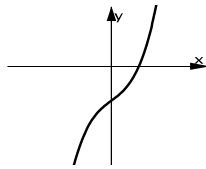
M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte
$\lim_{x \rightarrow +\infty} \left( \frac{1}{x} + 2 \right)$	$\lim_{x \rightarrow -\infty} (x^3 + 2x^2 - 4)$	$\lim_{x \rightarrow +\infty} \frac{1}{10} (x - x^2)(x^2 + 5x)$
M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte
$\lim_{x \rightarrow -\infty} \frac{2}{x^2 + 1}$	$\lim_{x \rightarrow +\infty} 1,5^x$	$\lim_{x \rightarrow -\infty} 3^x$
M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte
$\lim_{x \rightarrow +\infty} \left( \frac{1}{x-3} - 1 \right)$	$\lim_{x \rightarrow -\infty} 2,5^x$	$\lim_{x \rightarrow +\infty} (0,5^x + 3)$
M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte
$\lim_{x \rightarrow -\infty} -2(x^2 + 3)(x^3 - 2x)$	$\lim_{x \rightarrow +\infty} \frac{2x^2 - 2}{x^2 + 1}$	$\lim_{x \rightarrow -\infty} \sin(x)$
M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte	M_10_L_22   Grenzwerte
$\lim_{x \rightarrow -\infty} 0,3^x$	$\lim_{x \rightarrow +\infty} \frac{3}{x^2 + 1}$	$\lim_{x \rightarrow -\infty} \frac{x^2 - 9}{x^2 + 9}$



$$\frac{1}{10}(x-x^2)(x^2+5x) = -\frac{1}{10}x^4 + \dots$$

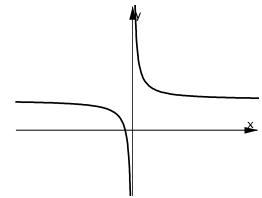
$$\lim_{x \rightarrow +\infty} \frac{1}{10}(x-x^2)(x^2+5x) = -\infty$$

03



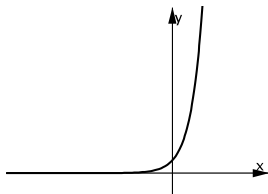
$$\lim_{x \rightarrow -\infty} (x^3 + 2x^2 - 4) = -\infty$$

02



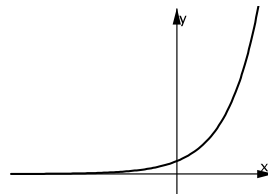
$$\lim_{x \rightarrow +\infty} \left(\frac{1}{x} + 2\right) = 2$$

01



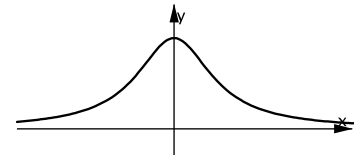
$$\lim_{x \rightarrow -\infty} 3^x = 0$$

06



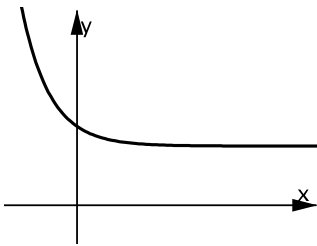
$$\lim_{x \rightarrow +\infty} 1,5^x = +\infty$$

05



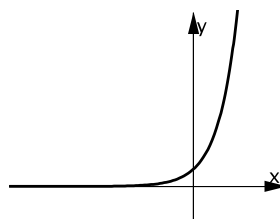
$$\lim_{x \rightarrow -\infty} \frac{2}{x^2 + 1} = 0$$

04



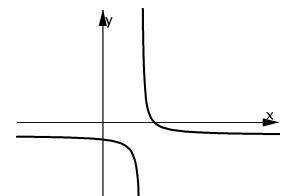
$$\lim_{x \rightarrow +\infty} (0,5^x + 3) = 3$$

09



$$\lim_{x \rightarrow -\infty} 2,5^x = 0$$

08



$$\lim_{x \rightarrow +\infty} \left(\frac{1}{x-3} - 1\right) = -1$$

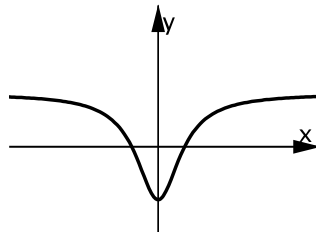
07



$$\lim_{x \rightarrow -\infty} \sin(x)$$

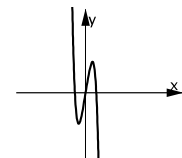
Dieser Grenzwert existiert nicht.

12



$$\lim_{x \rightarrow +\infty} \frac{2x^2 - 2}{x^2 + 1} = 2$$

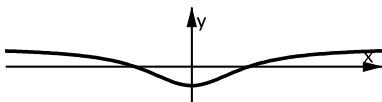
11



$$-2(x^2 + 3)(x^3 - 2x) = -2x^5 + \dots$$

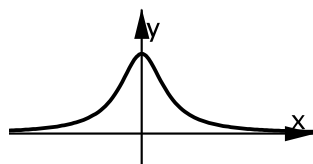
$$\lim_{x \rightarrow -\infty} -2(x^2 + 3)(x^3 - 2x) = +\infty$$

10



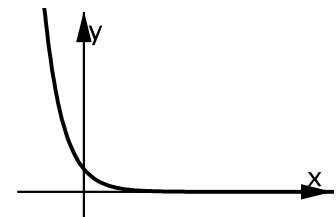
$$\lim_{x \rightarrow -\infty} \frac{x^2 - 9}{x^2 + 9} = 1$$

15



$$\lim_{x \rightarrow +\infty} \frac{3}{x^2 + 1} = 0$$

14



$$\lim_{x \rightarrow -\infty} 0,3^x = +\infty$$

13