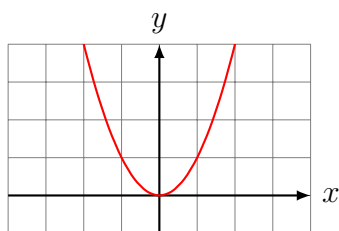


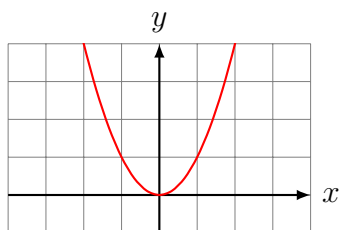
Aufgabe 1

$$\lim_{x \rightarrow \infty} x^2 = \infty$$



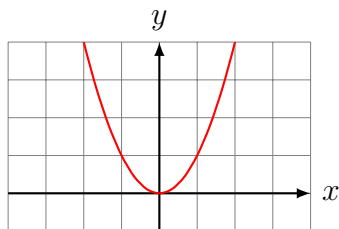
Aufgabe 2

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



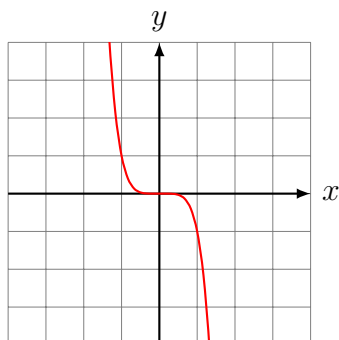
Aufgabe 3

$$\lim_{x \rightarrow 0} x^2 = 0$$



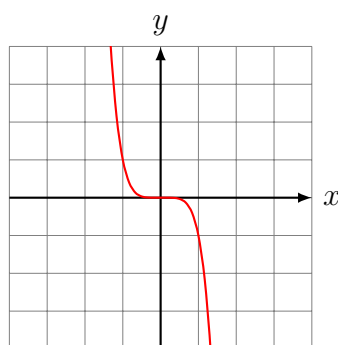
Aufgabe 4

$$\lim_{x \rightarrow \infty} (-x^5) = -\infty$$



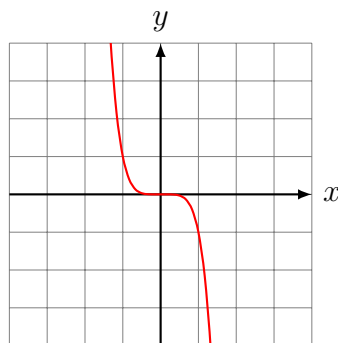
Aufgabe 5

$$\lim_{x \rightarrow -\infty} (-x^5) = \infty$$



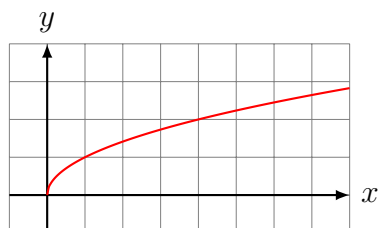
Aufgabe 6

$$\lim_{x \rightarrow 0} (-x^5) = 0$$



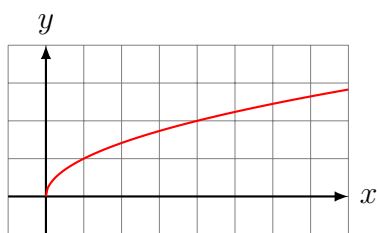
Aufgabe 7

$$\lim_{x \rightarrow \infty} \sqrt{x} = \infty$$



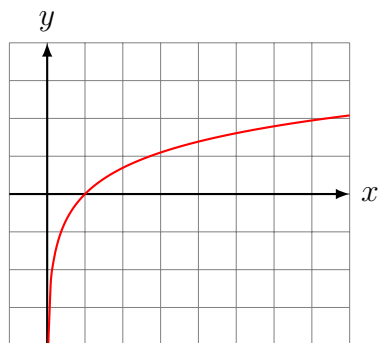
Aufgabe 8

$$\lim_{x \rightarrow 0^+} \sqrt{x} = 0$$



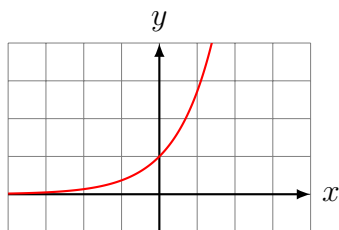
Aufgabe 12

$$\lim_{x \rightarrow \infty} \ln(x) = \infty$$



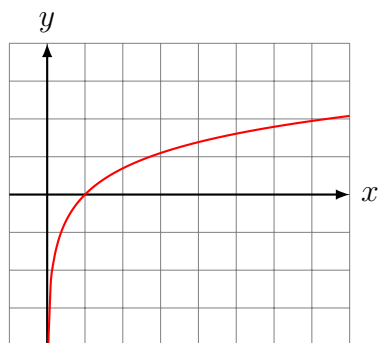
Aufgabe 9

$$\lim_{x \rightarrow \infty} e^x = \infty$$



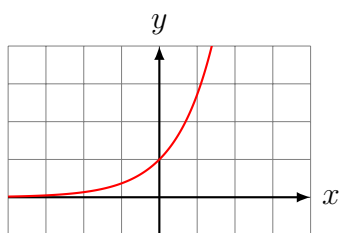
Aufgabe 13

$$\lim_{x \rightarrow 0^+} \ln(x) = -\infty$$



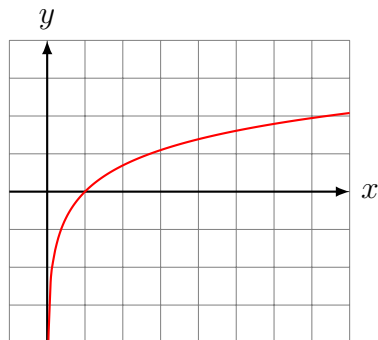
Aufgabe 10

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



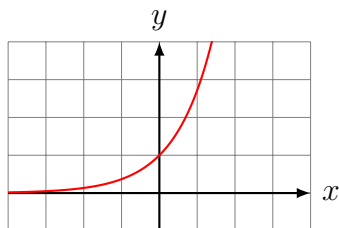
Aufgabe 14

$$\lim_{x \rightarrow 1} \ln(x) = 0$$



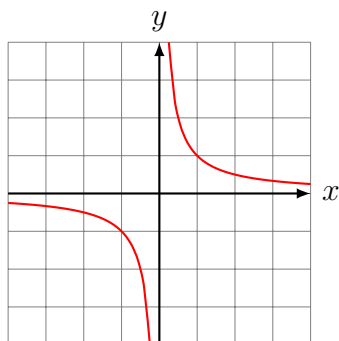
Aufgabe 11

$$\lim_{x \rightarrow 0} e^x = 1$$



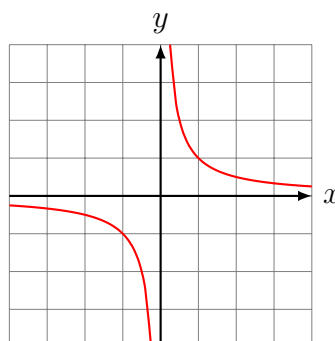
Aufgabe 15

$$\lim_{x \rightarrow \infty} \frac{1}{x} = 0$$



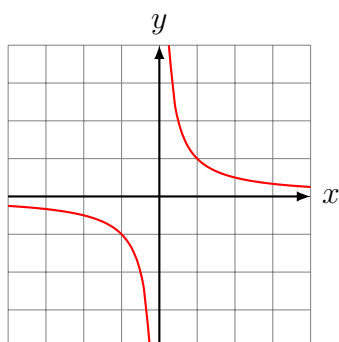
Aufgabe 18

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



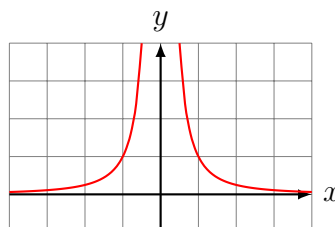
Aufgabe 16

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



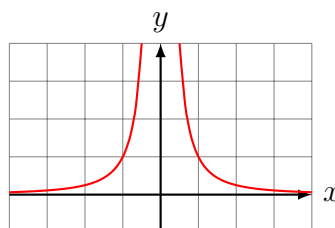
Aufgabe 19

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



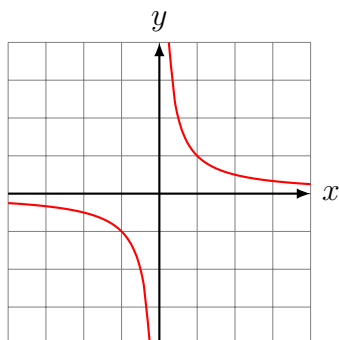
Aufgabe 20

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



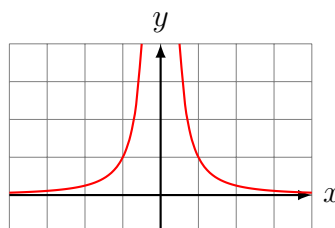
Aufgabe 17

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



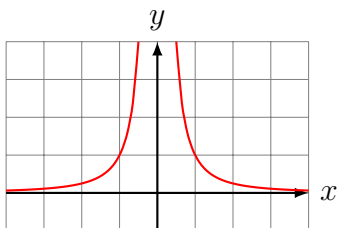
Aufgabe 21

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



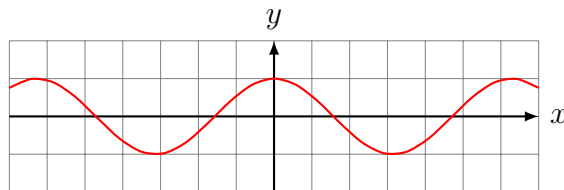
Aufgabe 22

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



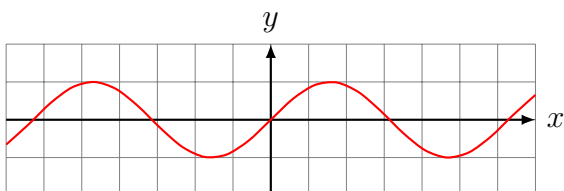
Aufgabe 26

$$\lim_{x \rightarrow \infty} \cos(x) \text{ existiert nicht}$$



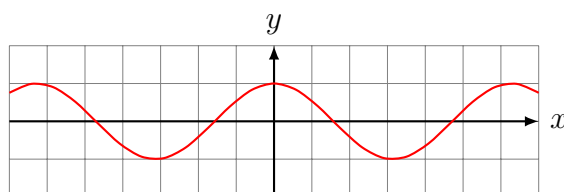
Aufgabe 23

$$\lim_{x \rightarrow \infty} \sin(x) \text{ existiert nicht}$$



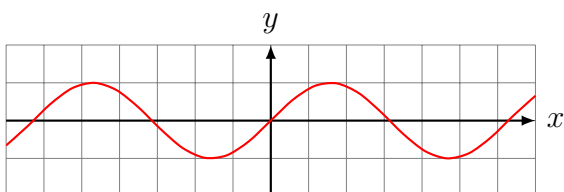
Aufgabe 27

$$\lim_{x \rightarrow -\infty} \cos(x) \text{ existiert nicht}$$



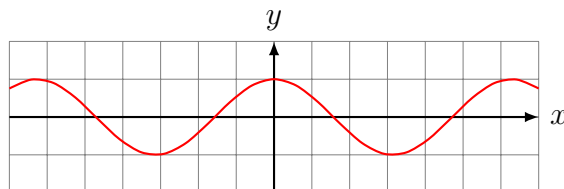
Aufgabe 24

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



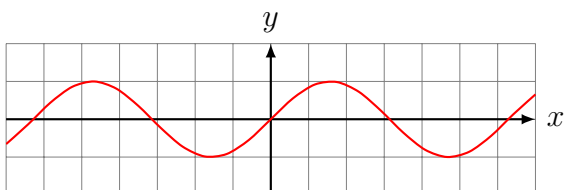
Aufgabe 28

$$\lim_{x \rightarrow 0} \cos(x) = 1$$



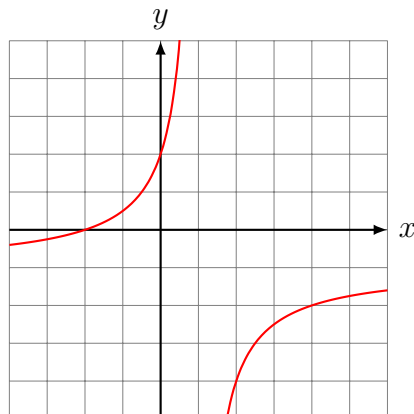
Aufgabe 25

$$\lim_{x \rightarrow 0} \sin(x) = 0$$



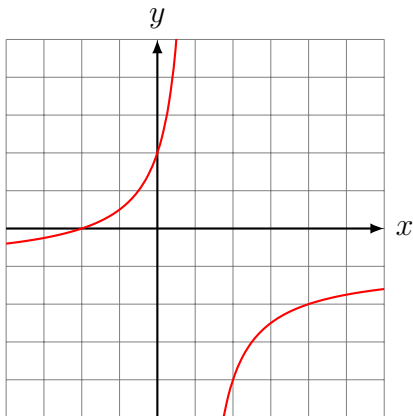
Aufgabe 29

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



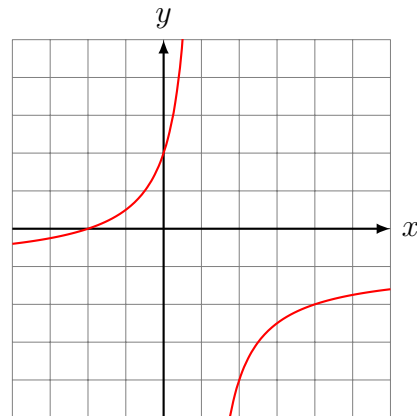
Aufgabe 30

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



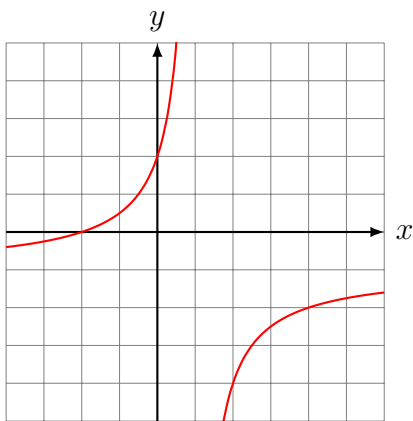
Aufgabe 32

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



Aufgabe 31

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



Aufgabe 33

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

