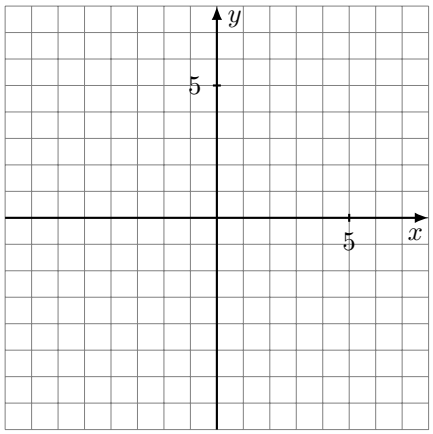
Skizzieren transformierter Funktionen **Übungen**

Skizziere die Graphen der Funktionen f und g ins gleiche Koordinatensystem.

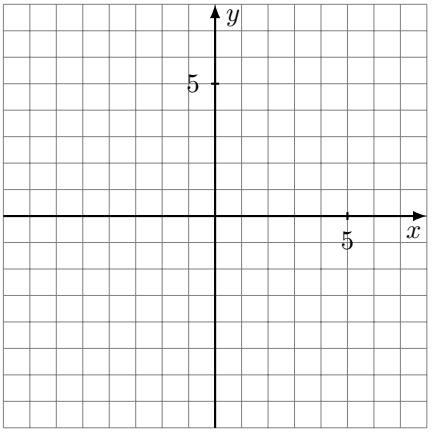
Aufgabe 1

$f\colon y = x^2$, $g\colon y = (x+2)^2 - 3$



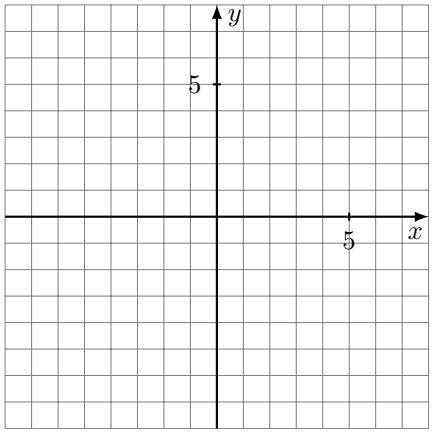
Aufgabe 2

$f\colon y = 2^x$, $g\colon y = 2^{-x}$



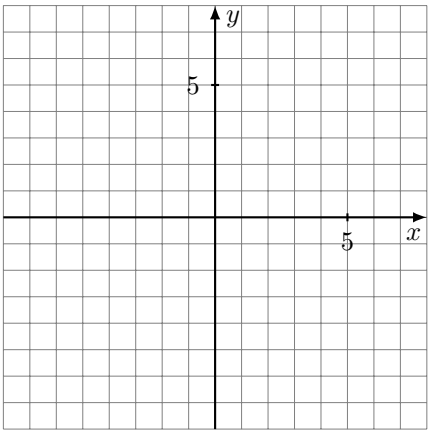
Aufgabe 3

$f\colon y = x^3$, $g\colon y = \frac{1}{2}x^3$



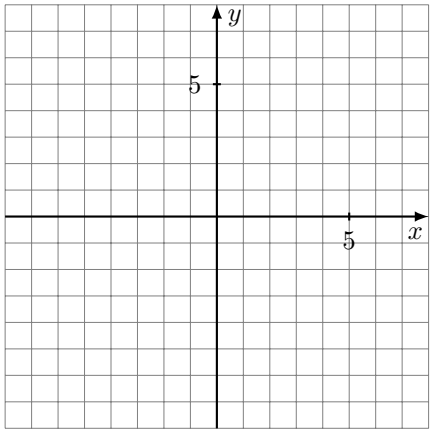
Aufgabe 4

$f\colon y = \sqrt{x}$, $g\colon y = \sqrt{-x}$



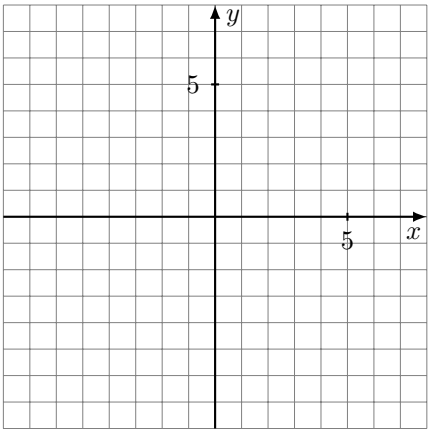
Aufgabe 5

$f\colon y = \dfrac{1}{x}$, $g\colon y = \dfrac{1}{x-2} - 1$



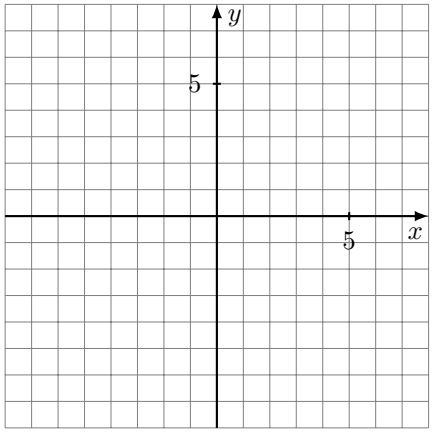
Aufgabe 6

$f\colon y = \dfrac{1}{x^2}$, $g\colon y = \dfrac{1}{(\frac{1}{3}x)^2}$



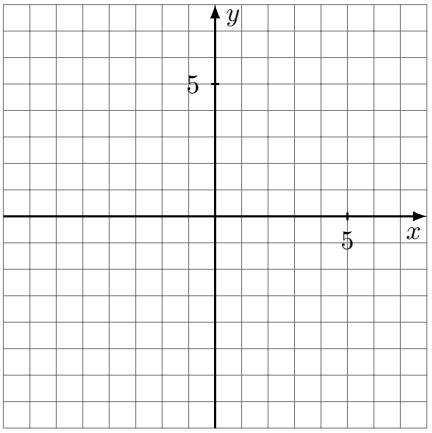
Aufgabe 7

$f\colon y = \log_2(x)$, $g\colon y = -\log_2(x)$



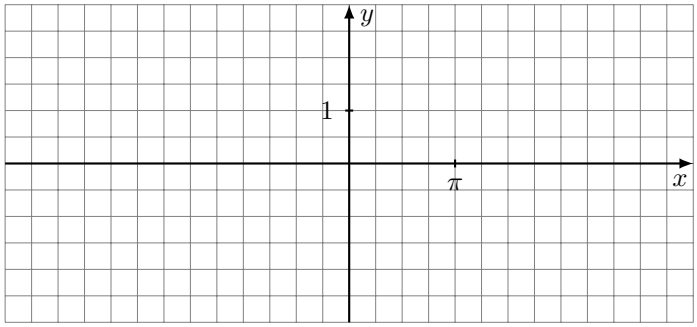
Aufgabe 8

$f\colon y = 2^x$, $g\colon y = 2^{x+2}$



Aufgabe 9

$f\colon y = \sin(x)$, $g\colon y = \sin(2x)$



Aufgabe 10

$f\colon y = \cos(x)$, $g\colon y = 2\cos(x)$