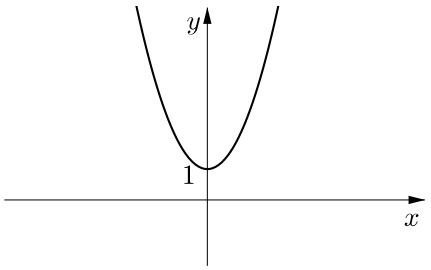
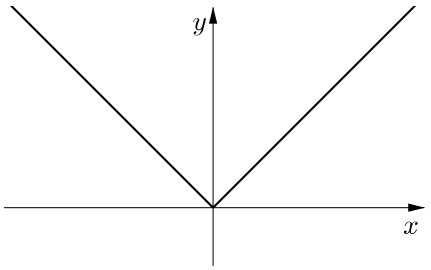


$f(x) = x^2 + 1$

domain:
$x \neq -1$

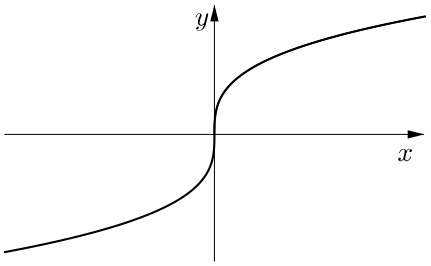
range:
$f(x) \neq 0$



$f(x) = |x|$

domain:
$x \in \mathbb{R}$

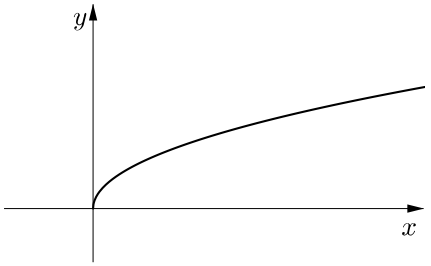
range:
$f(x) \geq 1$



$f(x) = \sqrt[3]{x}$

domain:
$x \in \mathbb{R}$

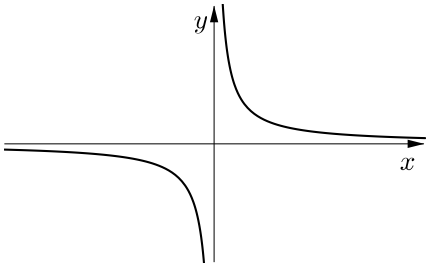
range:
$0 < f(x) \leq 1$



$f(x) = \sqrt{x}$

domain:
$x \in \mathbb{R}$

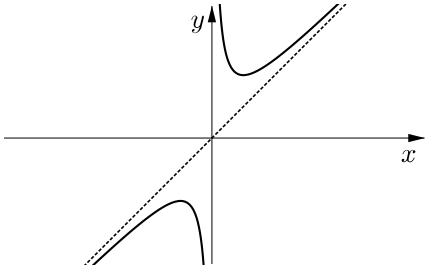
range:
$f(x) \geq -1$



$f(x) = \frac{1}{x}$

domain:
$x \neq 0$

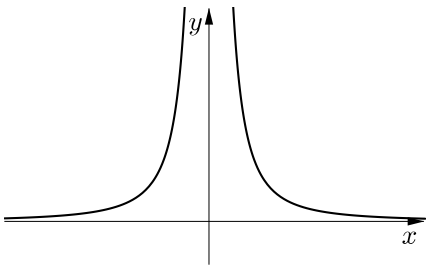
range:
$f(x) \neq -1$



$f(x) = x + \frac{1}{x}$

domain:
$x \neq -1$,
$x \neq 1$

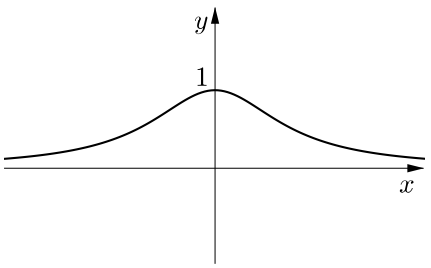
range:
$f(x) \leq -1$
or $f(x) > 0$



$f(x) = \frac{1}{x^2}$

domain:
$x \in \mathbb{R}$

range:
$f(x) \geq 0$



$f(x) = \frac{1}{x^2+1}$

domain:
$x \geq 0$

range:
$f(x) \geq 0$

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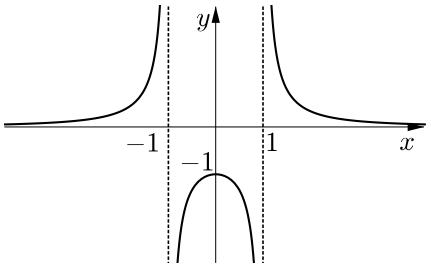
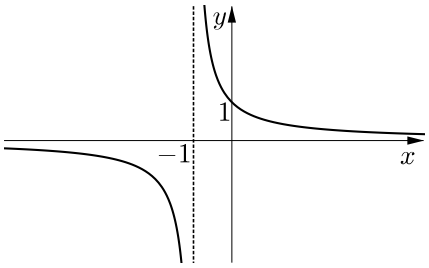
https://undergroundmathematics.org/combining-functions/domain-and-range-dominoes



$f(x) = \frac{1}{x^2-1}$

domain:
$x > 0$

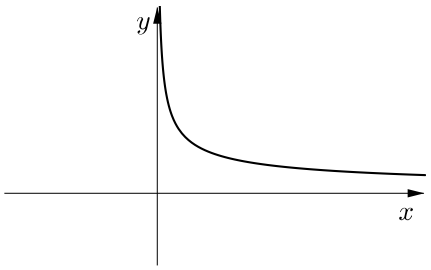
range:
$f(x) > 0$



$f(x) = \frac{1}{1+x}$

domain:
$x \geq 0$

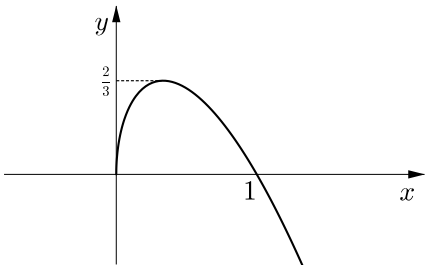
range:
$f(x) \leq \frac{2}{3}$



$f(x) = \frac{1}{\sqrt{x}}$

domain:
$x \in \mathbb{R}$

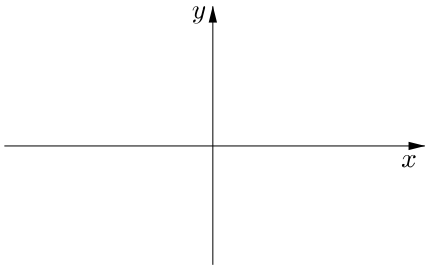
range:
$f(x) \in \mathbb{R}$



$f(x) = \sqrt{3x}(1-x)$

domain:
$x \neq 0$

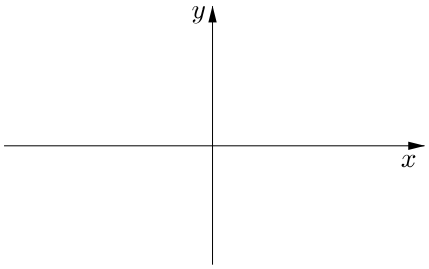
range:
$f(x) \neq 0$



$f(x) = \frac{1}{x} - 1$

domain:

range:



$f(x) =$

domain:

range:

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