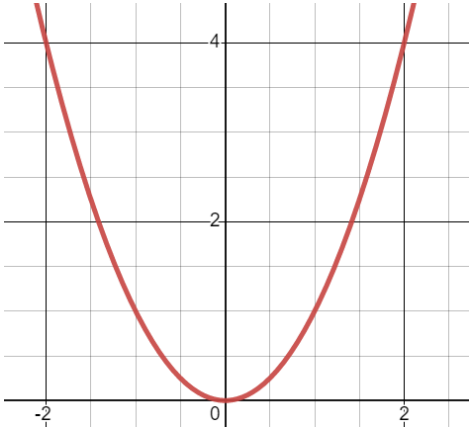
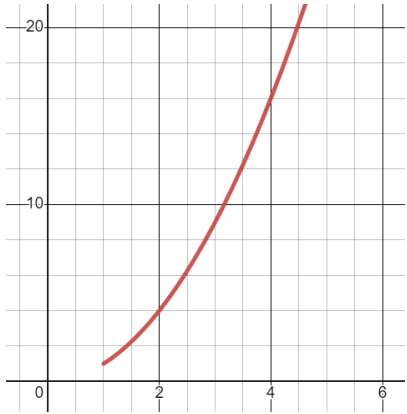
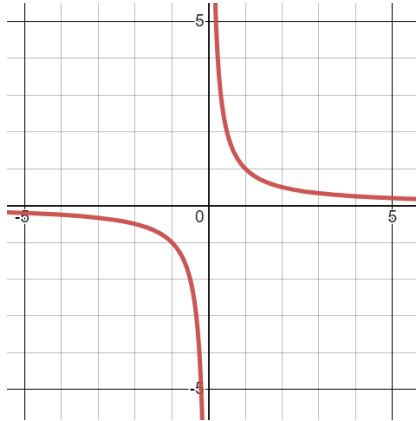
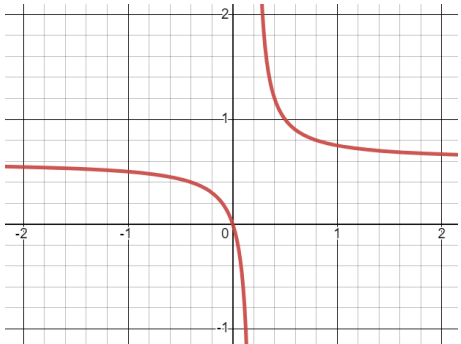


$f(x) = x^2$ $x \in \mathbb{R}$	$f(x) \geq 0$	No inverse	
$f(x) = x^2$ $x \geq 1$	$f(x) \geq 1$	$f^{-1}(x) = \sqrt{x}$ $x \geq 1$	
$f(x) = \frac{1}{x}$ $x \in \mathbb{R}, x \neq 0$	$f(x) \in \mathbb{R}, f(x) \neq 0$	$f^{-1}(x) = \frac{1}{x}$ $x \in \mathbb{R}, x \neq 0$	
$f(x) = \frac{3x}{5x - 1}$ $x \in \mathbb{R}, x \neq \frac{1}{5}$	$f(x) \in \mathbb{R}, f(x) \neq \frac{3}{5}$	$f^{-1}(x) = \frac{x}{5x - 3}$ $x \in \mathbb{R}, x \neq \frac{3}{5}$	

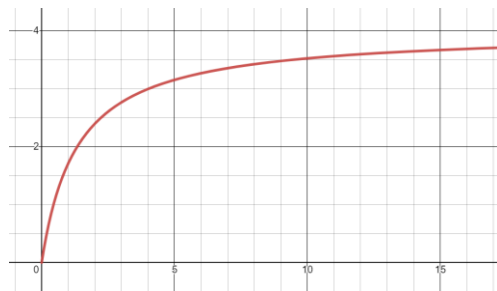
$$f(x) = \frac{12x}{3x+4}$$

$$x \geq 0$$

$$0 \leq f(x) < 4$$

$$f^{-1}(x) = \frac{4x}{12-3x}$$

$$0 \leq x < 4$$



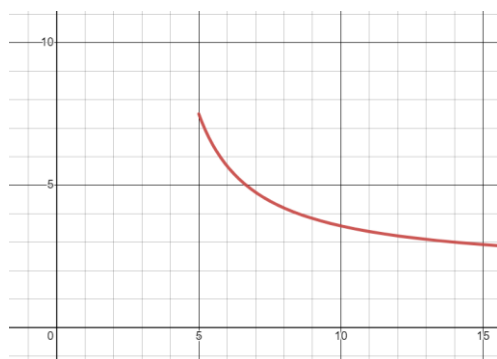
$$f(x) = \frac{2x+5}{x-3}$$

$$x \geq 5$$

$$2 < f(x) \leq \frac{15}{2}$$

$$f^{-1}(x) = \frac{3x+5}{x-2}$$

$$2 < x \leq \frac{15}{2}$$

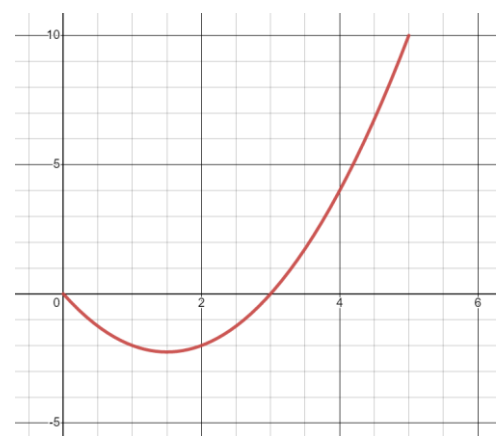


$$f(x) = x^2 - 3x$$

$$0 \leq x \leq 5$$

$$-\frac{9}{4} \leq f(x) \leq 10$$

No inverse



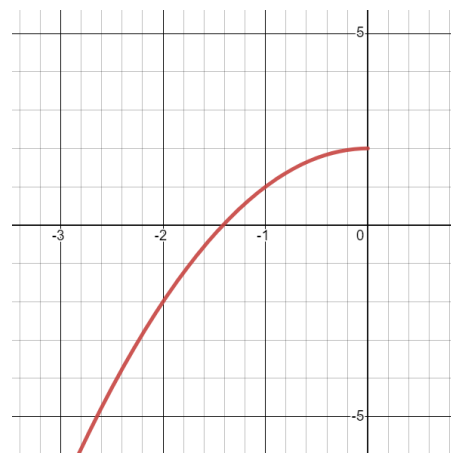
$$f(x) = 2 - x^2$$

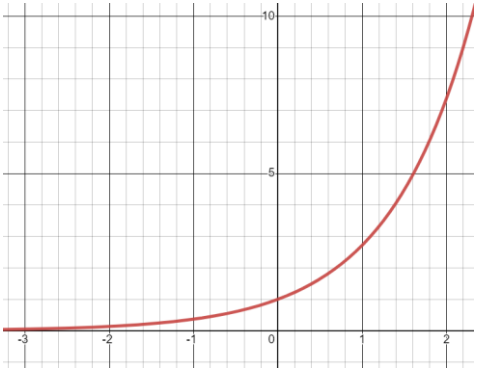
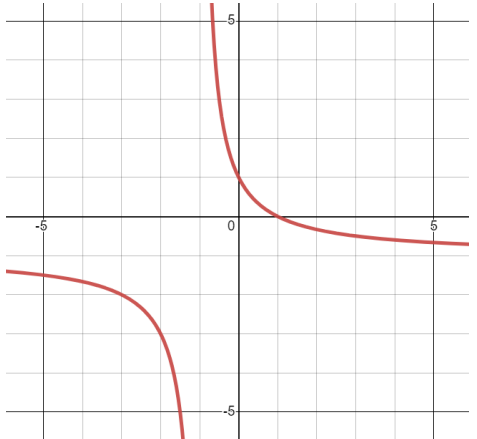
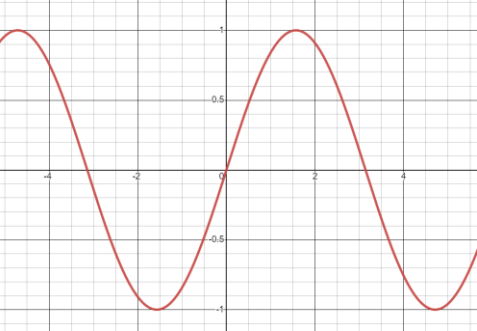
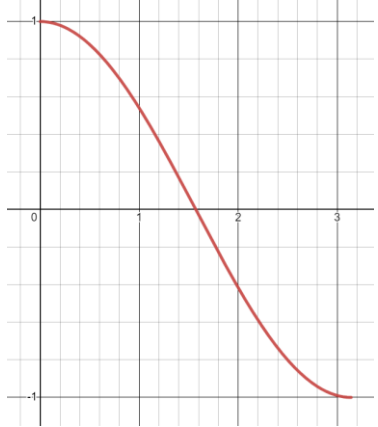
$$x < 0$$

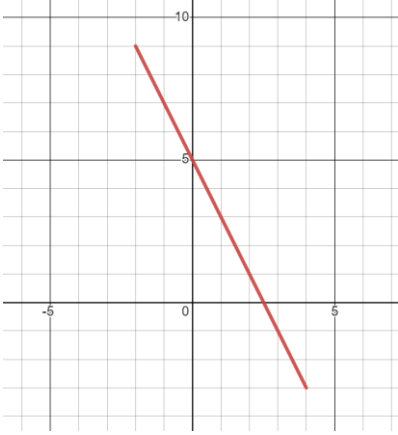
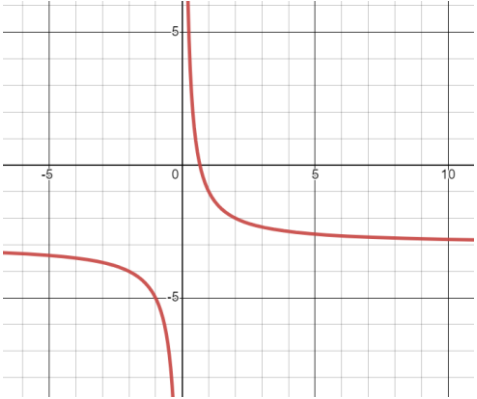
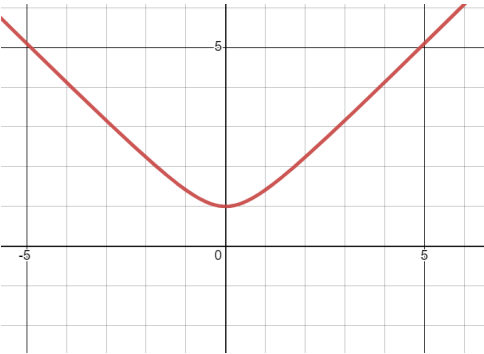
$$f(x) < 2$$

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

$$x < 2$$



$f(x) = e^x$ $x \in \mathbb{R}$	$f(x) > 0$	$f^{-1}(x) = \ln x$ $x > 0$	
$f(x) = \frac{1-x}{1+x}$ $x \in \mathbb{R}, x \neq -1$	$f(x) \neq -1$	$f^{-1}(x) = \frac{1-x}{1+x}$ $x \in \mathbb{R}, x \neq -1$	
$f(x) = \sin x$ $x \in \mathbb{R}$	$-1 \leq f(x) \leq 1$	<p>No inverse</p>	
$f(x) = \cos x$ $0 \leq x \leq \pi$	$-1 \leq f(x) \leq 1$	$f^{-1}(x) = \arccos x$ $-1 \leq x \leq 1$	

$f(x) = -2x + 5$ $-2 < x \leq 4$	$-3 \leq f(x) < 9$	$f^{-1}(x) = -\frac{1}{2}x + \frac{5}{2}$ $-3 \leq x < 9$	
$f(x) = \frac{2}{x} - 3$ $x \in \mathbb{R}, x \neq 0$	$f(x) \in \mathbb{R}, f(x) \neq -3$	$f^{-1}(x) = \frac{2}{x + 3}$ $x \neq -3$	
$f(x) = \sqrt{1 + x^2}$ $x \in \mathbb{R}$	$f(x) \geq 1$	<p>No inverse</p>	
$f(x) = \frac{x + 5}{2x - 1}$ $x \in \mathbb{R}, x \neq \frac{1}{2}$	$f(x) \in \mathbb{R}, f(x) \neq \frac{1}{2}$	$f^{-1}(x) = \frac{x + 5}{2x - 1}$ $x \in \mathbb{R}, x \neq \frac{1}{2}$	