

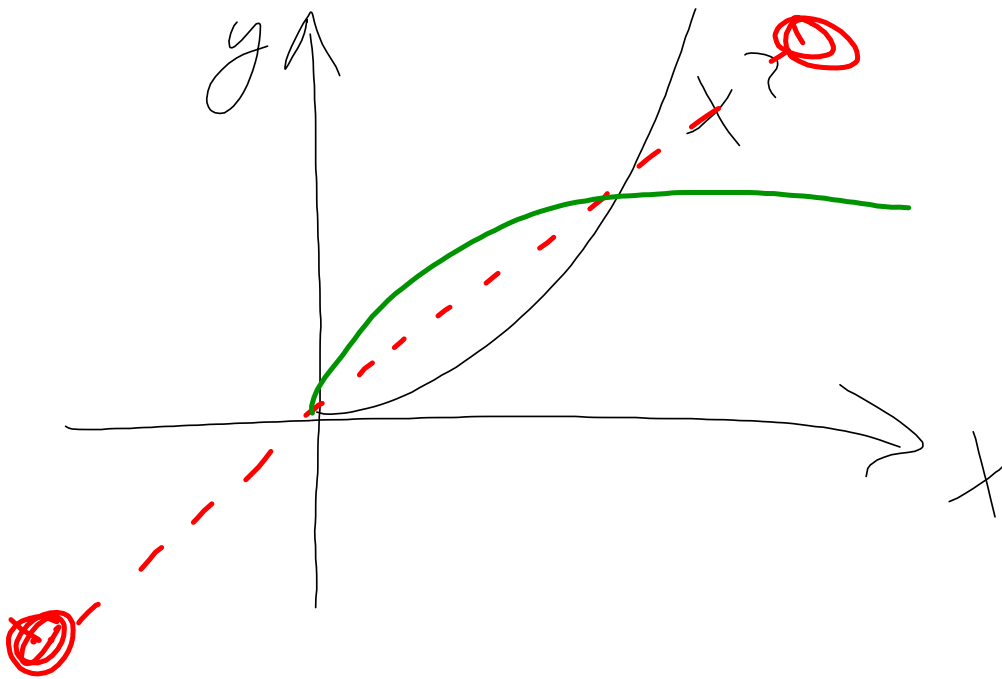
$$[a, 1]$$

$$[1, a]$$

$$[b, 1]$$

$$[1, b]$$

$$f(x) = \begin{cases} 1, & x \in (-\infty, 5) \\ x^3 + \ln x, & x \in [5, 8) \\ \vdots & \end{cases}$$

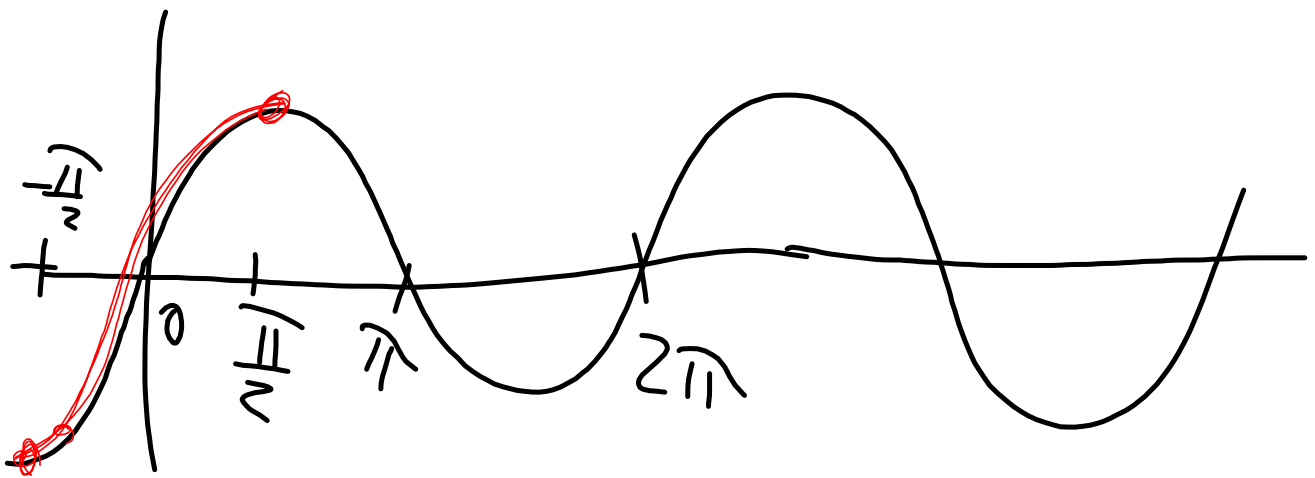


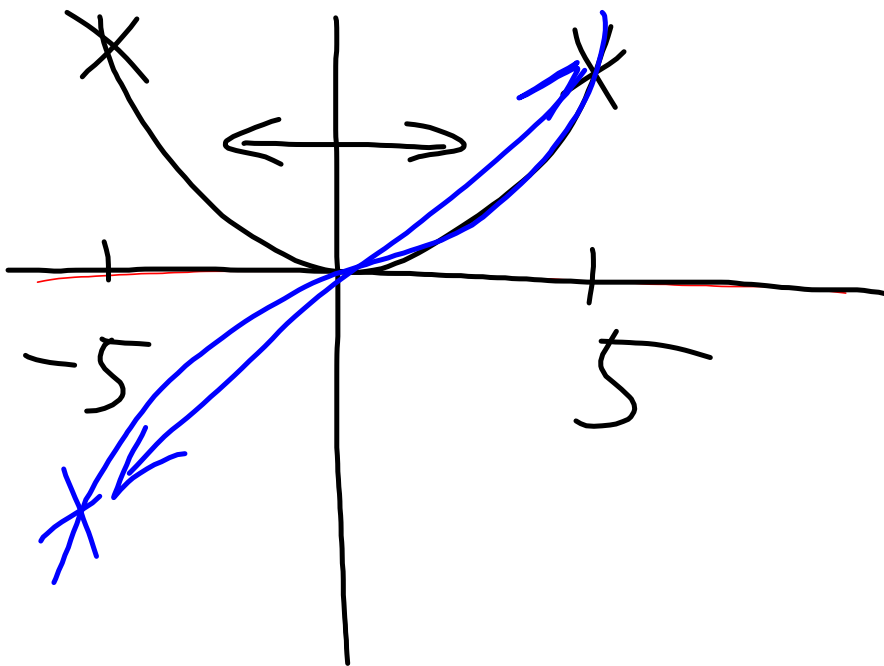
$$(f \circ g \circ h)(x) = f(g(h(x)))$$

$$\textcircled{f^{-1}} \neq \frac{1}{f}$$

$$\frac{\cancel{\sin} x}{\cancel{x}} = \sin x = 6$$

$$\frac{\sqrt{\cancel{x}}}{\cancel{x}} = \sqrt{\quad}$$



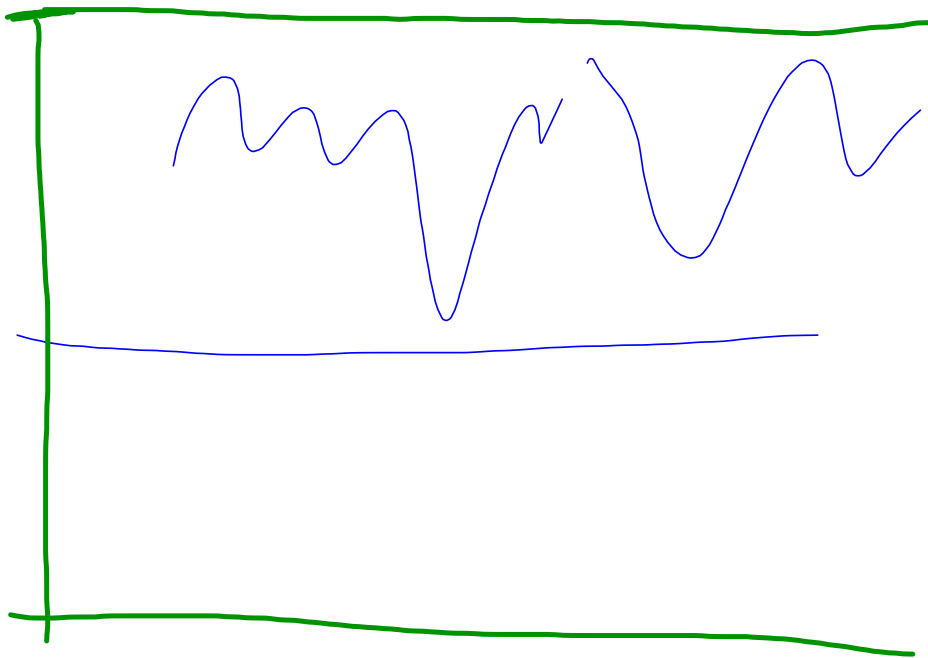


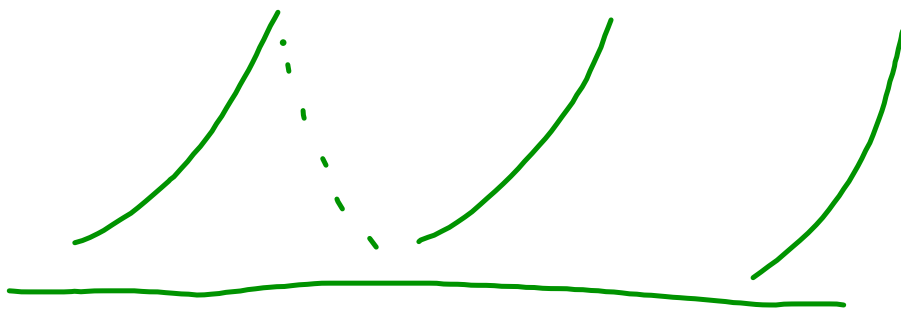


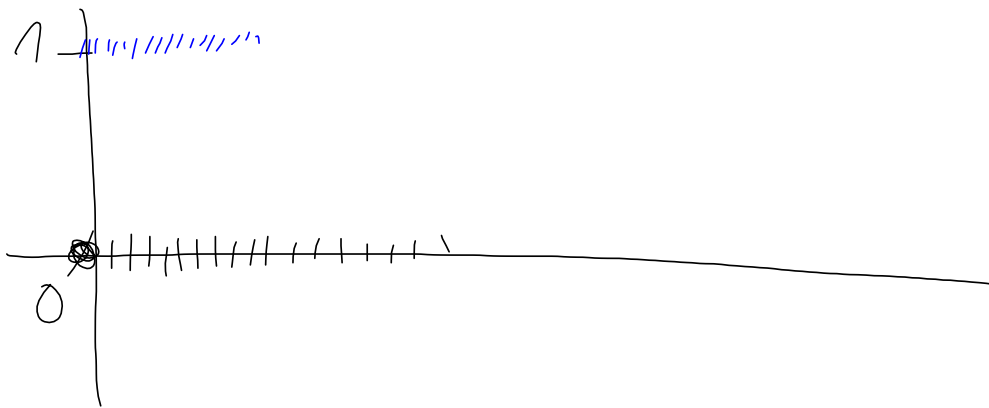
$$f(x) = \frac{5x^4 - 8x^2 + 2}{3x}$$

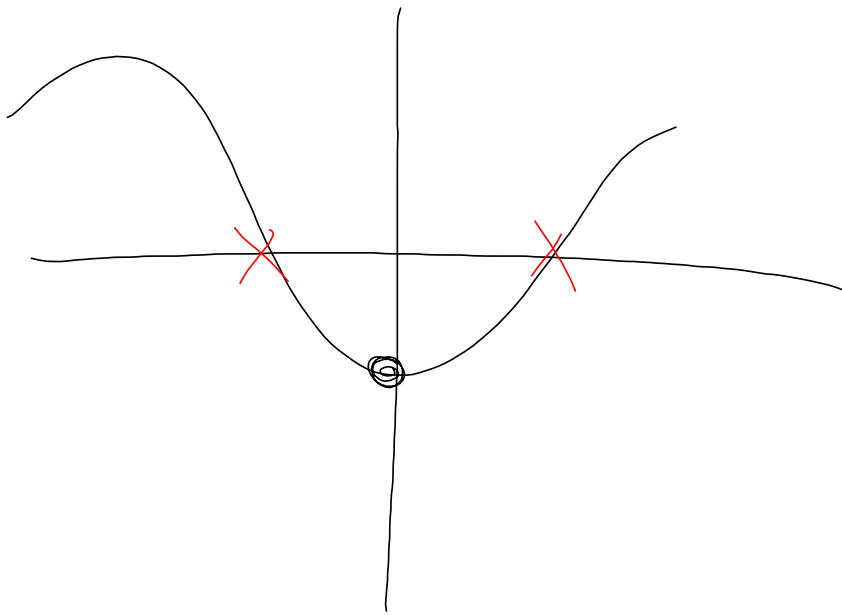
(L)

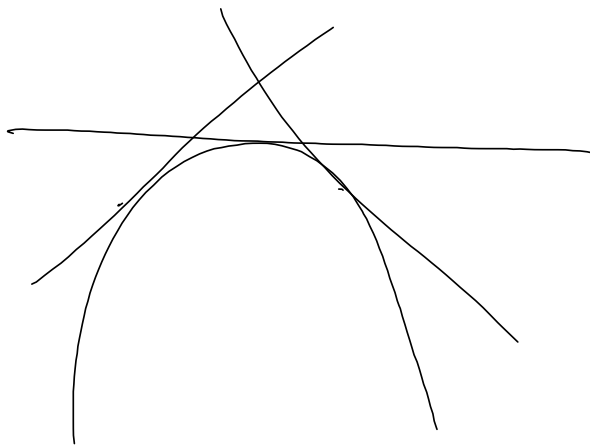
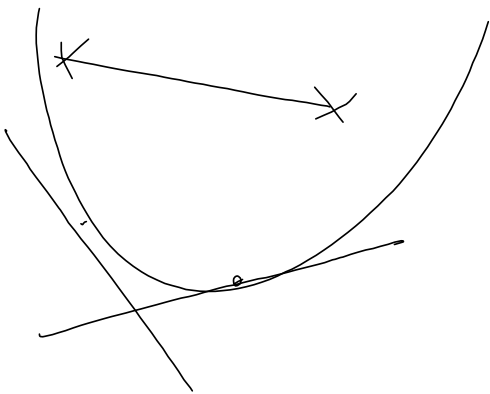
$$f(-x) = \frac{5(-x)^4 - 8(-x)^2 + 2}{3(-x)} = \frac{5x^4 - 8x^2 + 2}{-3x}$$

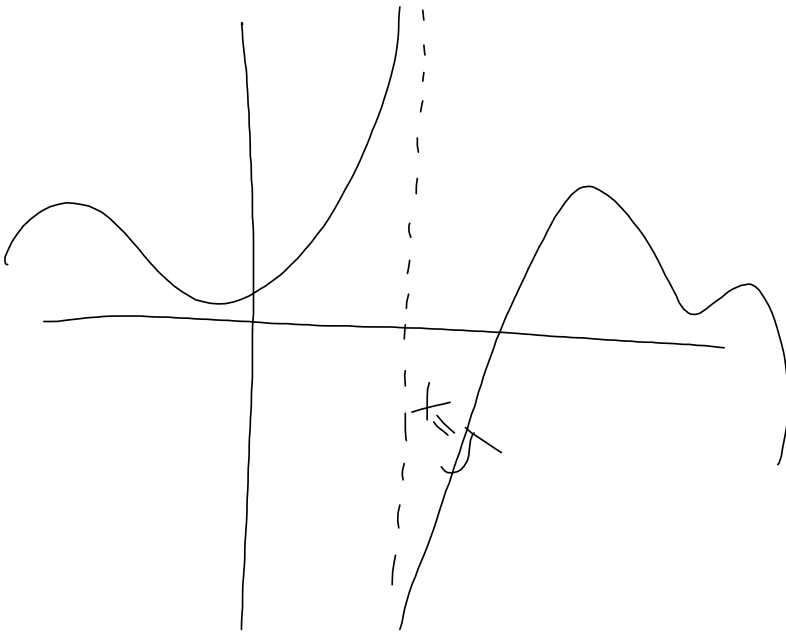


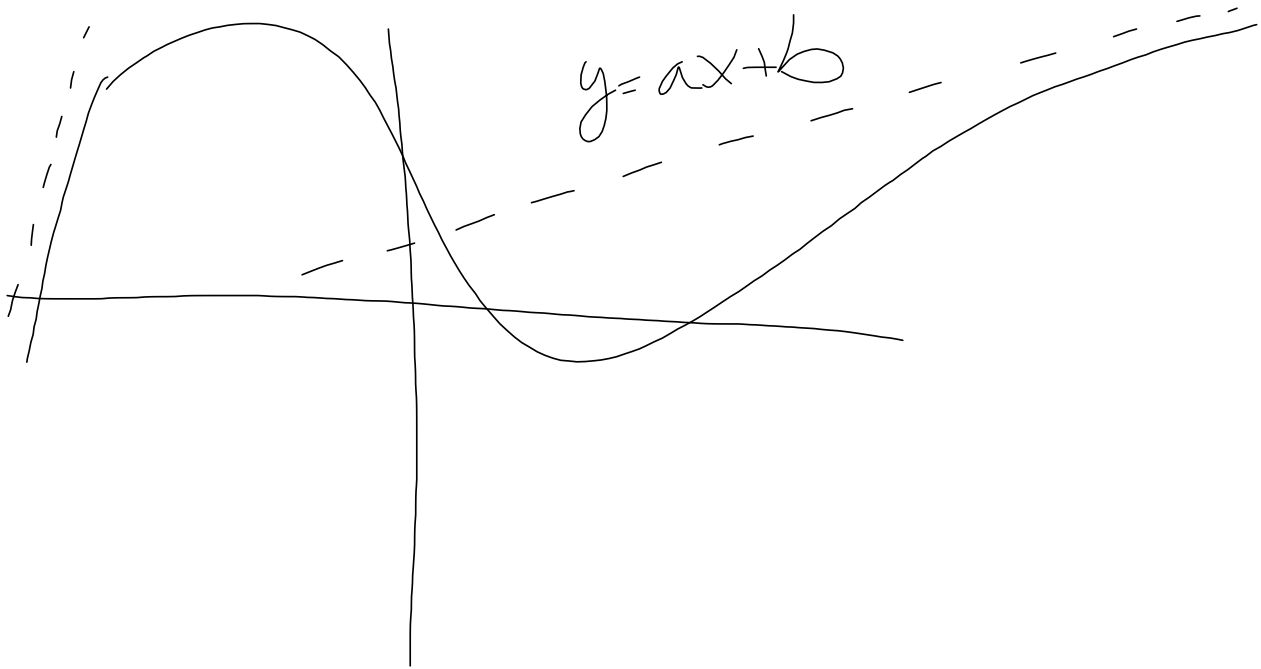














$$y = f(x) - 2$$

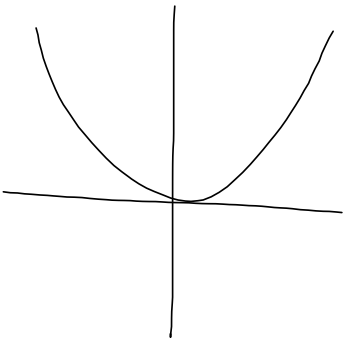
$$(y+2) = f(x)$$

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

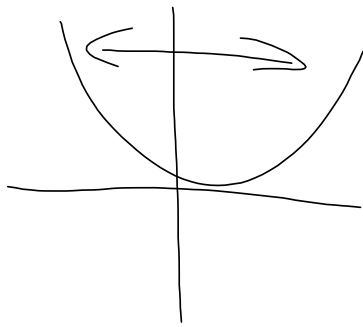
$$x-2=0$$

$$x=2$$

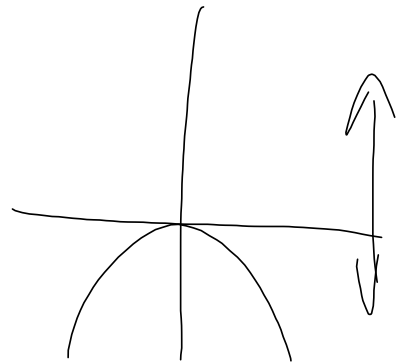
$$y = x^2$$



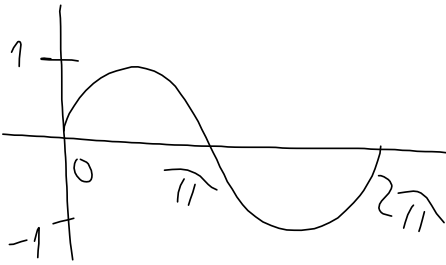
$$y = (-x)^2$$



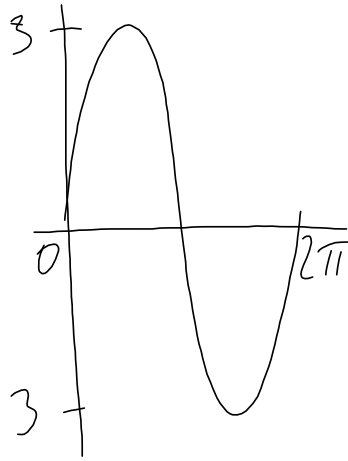
$$y = -x^2$$
$$-y = x^2$$



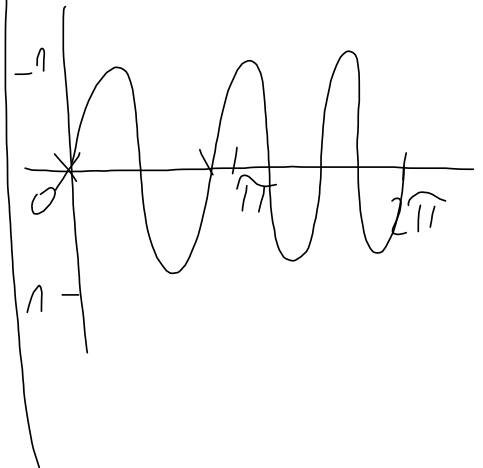
$$y = \sin x$$



$$y = 3 \cdot \sin x$$



$$y = \sin 3x$$



$$\sin^2 x = (\sin x)^2$$

$$\sin x^2 = \sin(x^2)$$
