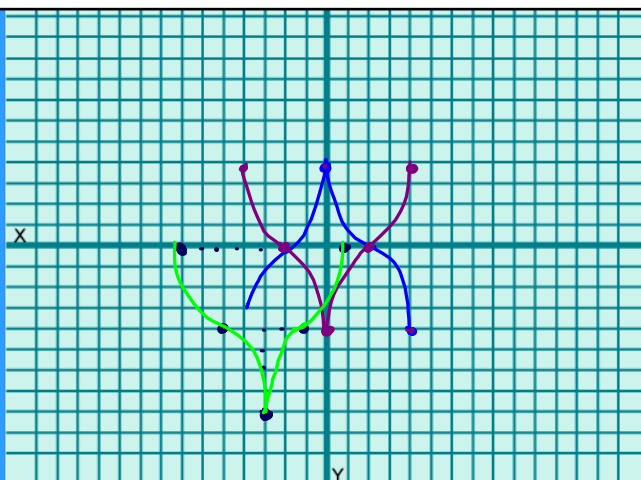


GRAPH TRANSFORMATIONS

$$-f(x+3)-4$$

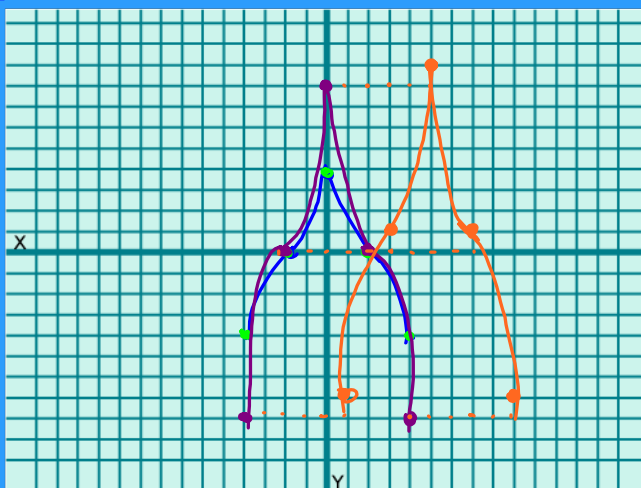
↑ reflect over x
 ↑ left 3
 ↑ down 4



$$2f(x-5)+1$$

↑ Dilation
 Right 5
 Up 1

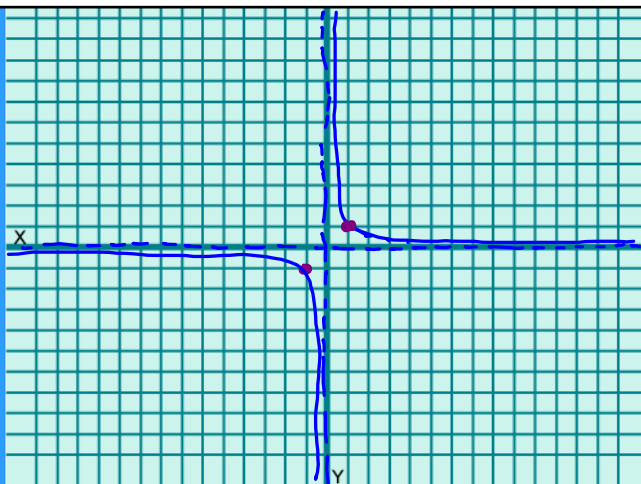
·2
·2
·2



GRAPHS OF RATIONAL FUNCTIONS

$$y = \frac{1}{x}$$

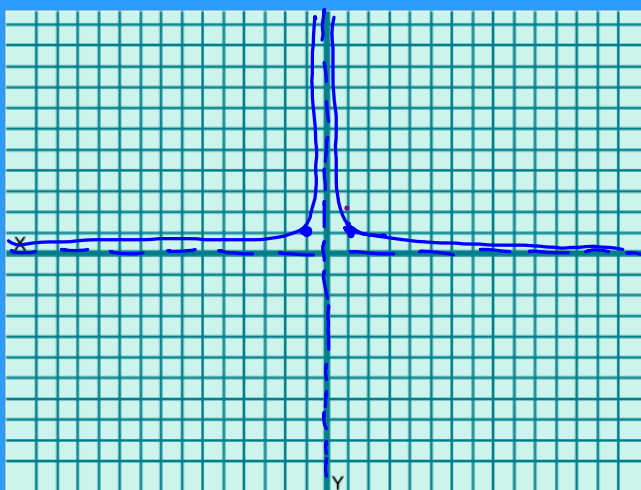
0	$\frac{1}{0} = \text{undef}$
-1	$\frac{1}{-1} = -1$
-2	$-\frac{1}{2}$
-3	$-\frac{1}{3}$



$$y = \frac{1}{x^2}$$

$$\frac{1}{x^2} = \frac{1}{x \cdot x}$$

$$y = \frac{3}{x^2} = 3 \cdot \frac{1}{x^2}$$

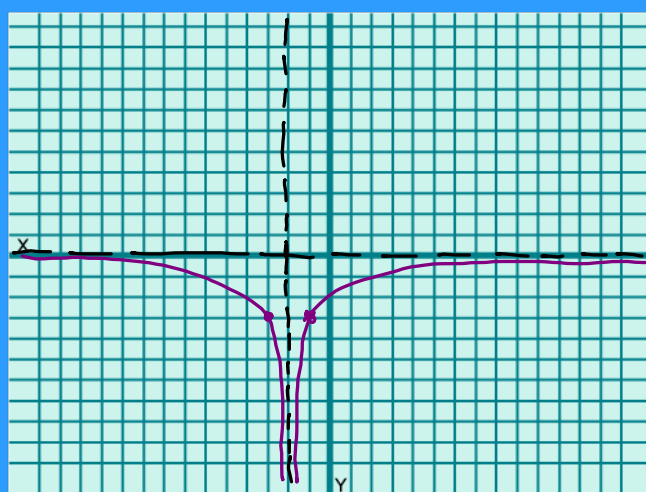
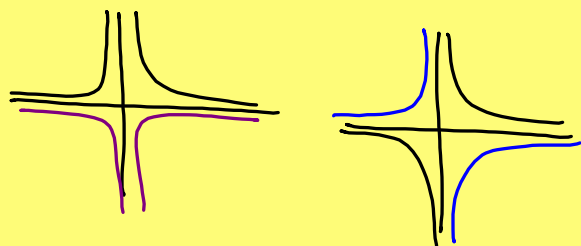


$$y = \frac{2}{x+4} + 7 \quad 1/x^2$$

halfway \uparrow left 4 \uparrow up 7

$$y = \frac{-3}{(x+2)^2} \quad 1/x^3$$

left 2



Power Regression

$$y = a \cdot x^b$$

