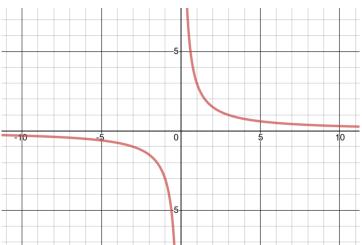
4.3) Reciprocal graphs

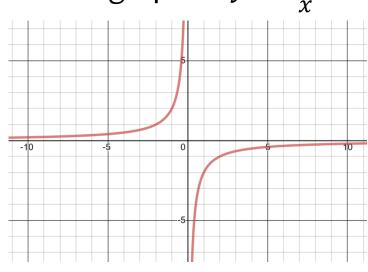
Sketch the graph of  $y = \frac{a}{x}$ , a > 0

Sketch the graph of  $y = \frac{3}{x}$ 



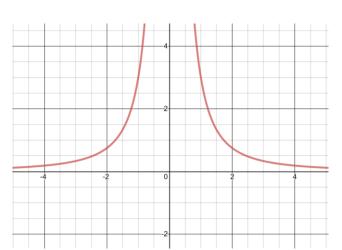
Sketch the graph of  $y = \frac{a}{x}$ , a < 0

Sketch the graph of  $y = \frac{-2}{x}$ 



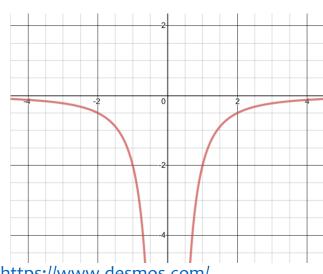
Sketch the graph of 
$$y = \frac{a}{x^2}$$
,  $a > 0$ 

Sketch the graph of  $y = \frac{3}{x^2}$ 



Sketch the graph of 
$$y = \frac{a}{x^2}$$
,  $a < 0$ 

Sketch the graph of  $y = \frac{-2}{x^2}$ 

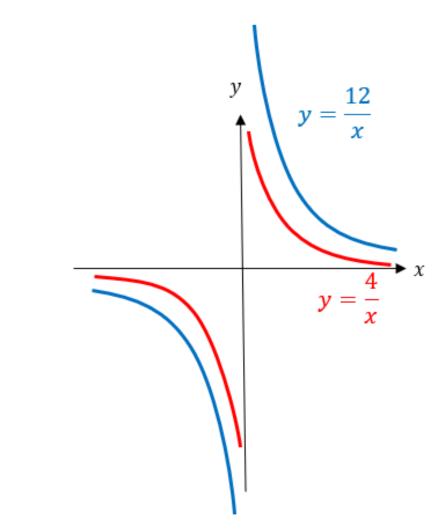


Sketch on the same diagram:

$$y = \frac{2}{x}$$
 and  $y = \frac{8}{x}$ 

Sketch on the same diagram:

$$y = \frac{4}{x} \text{ and } y = \frac{12}{x}$$

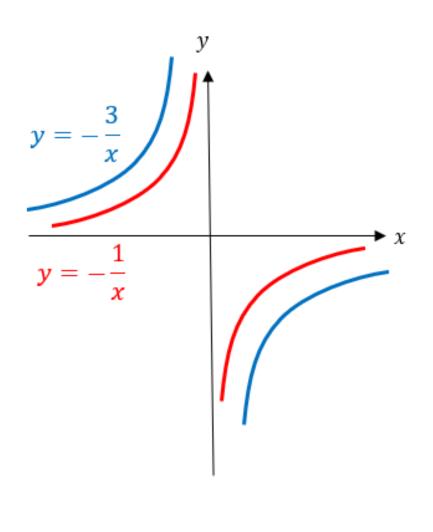


Sketch on the same diagram:

$$y = -\frac{2}{x} \text{ and } y = -\frac{8}{x}$$

Sketch on the same diagram:

$$y = -\frac{1}{x} \text{ and } y = -\frac{3}{x}$$



Sketch on the same diagram:

$$y = \frac{2}{x^2} \text{ and } y = \frac{7}{x^2}$$

Sketch on the same diagram:

$$y = \frac{4}{x^2} \text{ and } y = \frac{10}{x^2}$$

