

HOMEWORK: GRAPH RATIONAL FUNCTIONS 1

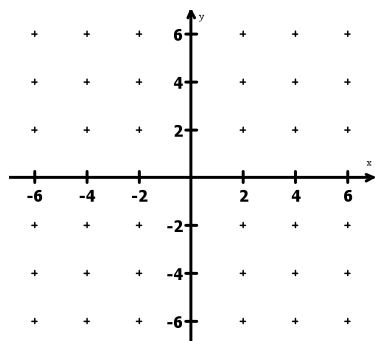
DAY 6

NAME: _____

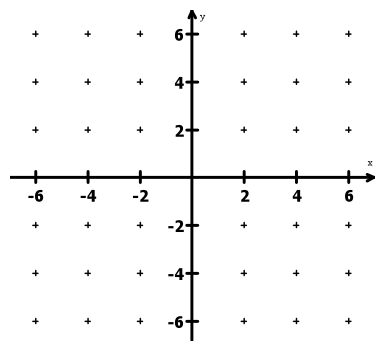
DUE DATE: _____

1. Sketch the following graphs without a calculator.

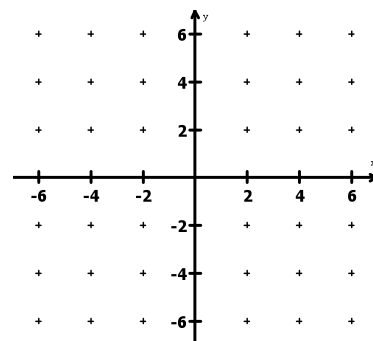
$$y = \frac{1}{x - 2}$$



$$y = \frac{1}{x + 4} - 3$$



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



Find the vertical and horizontal asymptotes of the graph of the function.

2. $f(x) = \frac{2}{x-10} + 1$

3. $f(x) = \frac{4}{x+2} + 9$

4. $f(x) = \frac{2x}{x+5}$

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

6. $f(x) = \frac{3x}{x^2+3}$

7. $f(x) = \frac{4x+3}{9x^2-1}$

8. $f(x) = \frac{4x}{2x-1}$

VA:	Domain:	Table	
HA:	Range:		

9. $f(x) = \frac{2x^2}{x^2-9}$

VA:	Domain:	Table	
HA:	Range:		