

PAP Algebra 2
8.3 Evaluate Graphing Rational Functions

Name: _____

Graph the function with a solid line and the asymptotes with a dashed line.

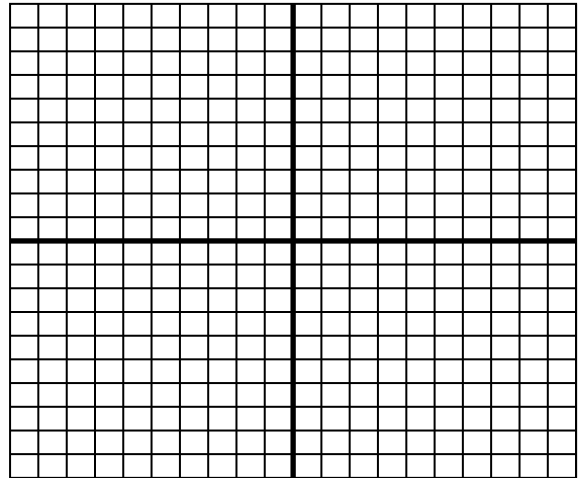
1. $f(x) = \frac{-6x + 5}{x + 2}$

VA: _____

HA: _____

Domain: _____

Range: _____



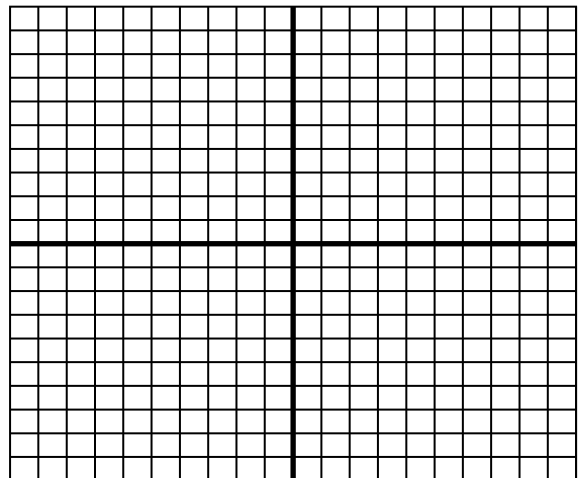
2. $f(x) = \frac{1}{x + 2} - 1$

VA: _____

HA: _____

Domain: _____

Range: _____



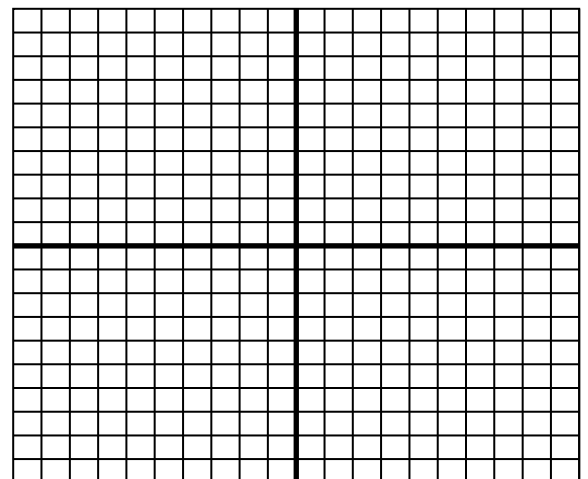
3. $f(x) = \frac{x - 4}{x^2 + x - 6}$

VA: _____

HA: _____

Domain: _____

Range: _____



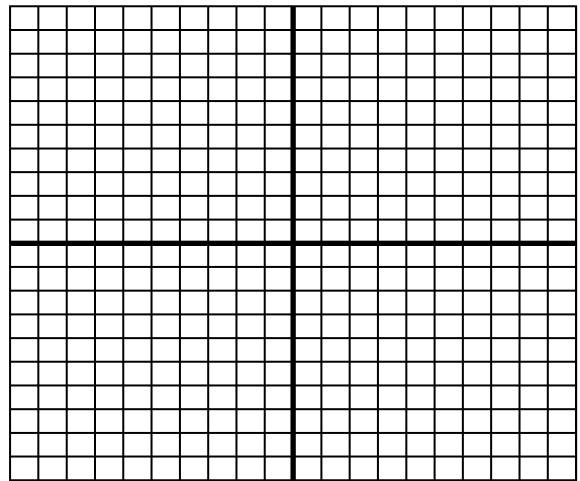
$$4. f(x) = \frac{4}{x^2 + 4x - 5}$$

VA: _____

HA: _____

Domain: _____

Range: _____



State the equations of the vertical and horizontal asymptotes for each rational function.

$$5. f(x) = \frac{8x}{x-4}$$

VA: _____

HA: _____

$$7. f(x) = \frac{x^2 + x - 6}{x-4}$$

VA: _____

HA: _____

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

VA: _____

HA: _____

$$8. f(x) = \frac{1}{x-9}$$

VA: _____

HA: _____