

Name _____

Graphing Rational Functions Worksheet #2

I. For the following rational functions, find the

a. Vertical Asymptotes

b. Horizontal Asymptotes

c. Slant Asymptotes

d. Holes

e. Intercepts

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

$$2. f(x) = \frac{x-4}{x^2-2x-15}$$

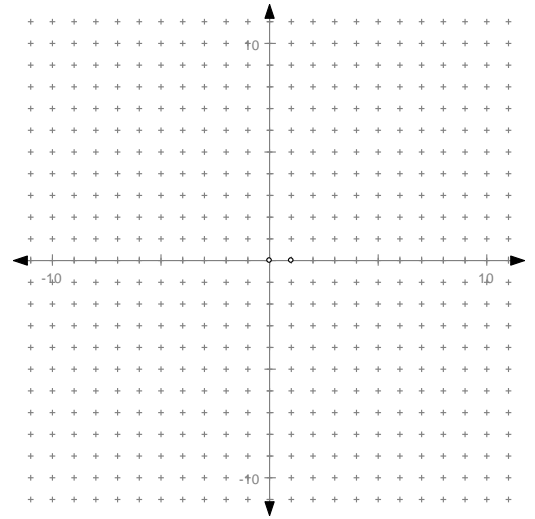
$$3. f(x) = \frac{x^2-1}{x}$$

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

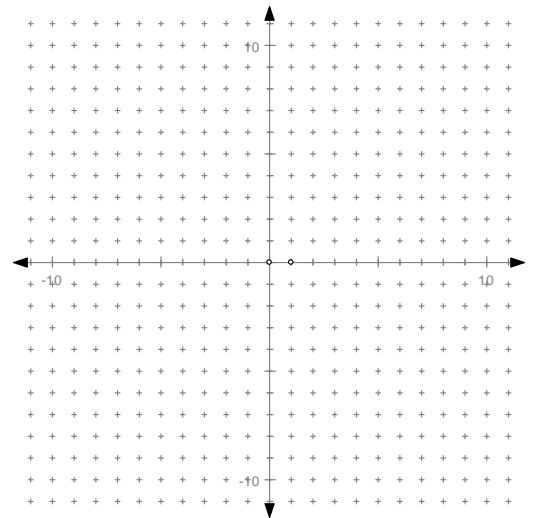
$$5. f(x) = \frac{4}{x+3}$$

Find the VA, HA, SA, holes and intercepts of the rational function. Use this information to graph the rational function.

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



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



$$8. f(x) = \frac{x^2+x-12}{x+2}$$

