

Exercises

Graph the following functions. Solutions will follow the exercises.

$$1. f(x) = \frac{1}{x+3}$$

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

$$3. y = \frac{4x}{2x-1}$$

$$4. y = \frac{4x}{1-2x}$$

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

$$6. h(x) = \frac{x^2 - x - 20}{x-5}$$

$$7. y = \frac{x^2 + 1}{x^2}$$

$$8. p(x) = \frac{3}{x^2 - 4}$$

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

$$10. g(x) = \frac{x^2 - 2x - 8}{x^2 + 2x - 15}$$

$$11. y = \frac{x-1}{x^2-1}$$

$$12. q(x) = \frac{6x+2}{4x-5}$$

Exercise Solutions

The following graph solutions are done in blue.

The asymptotes are done in red.

1. $f(x) = \frac{1}{x+3}$

