

Graphing Rational Functions

Vertical Asymptotes

Horizontal Aymptotes/Slant Asymptotes –

1.

2.

3.

Ex.  $y = \frac{5x}{x+3}$

Ex.  $y = \frac{-(x+1)}{(x+2)^2}$

$$\text{Ex. } y = \frac{x+1}{x^2+x-6}$$

$$\text{Ex. } y = \frac{x^2+x-6}{x+2}$$

$$\text{Ex. } y = \frac{(x+1)^2(x+4)^3}{x(x+2)^2(x-3)^2}$$