

Name _____

Date _____

Slant Asymptotes: If the degree on the _____ is _____ higher than the degree on the _____, then the function has a slant asymptote, _____.

- Use _____ to find the equation.

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

Ex 2. $f(x) = \frac{x^2 + 7x + 12}{x - 3}$

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

Increasing & Decreasing: _____, read from left to right.

Only use _____.

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

V.A: _____

Hole: _____

H.A.: _____

Inc: _____

S.A.: _____

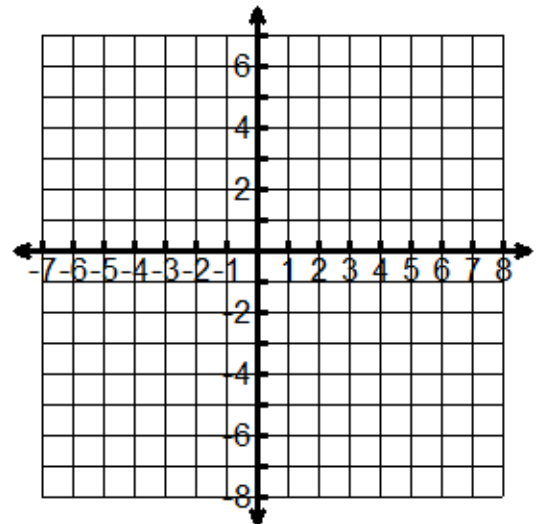
Dec: _____

x-int(s): _____

Domain: _____

y-int: _____

Range: _____



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

V.A.: _____

Holes: _____

H.A.: _____

Inc: _____

S.A.: _____

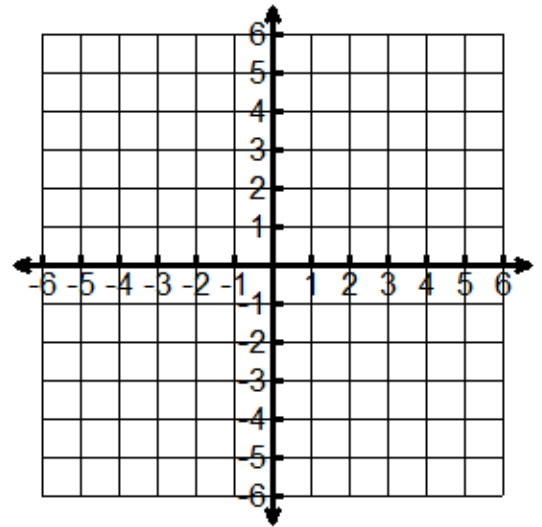
Dec: _____

x-int(s): _____

Domain: _____

y-int: _____

Range: _____



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

V.A.: _____

Holes: _____

H.A.: _____

Inc: _____

S.A.: _____

Dec: _____

x-int(s): _____

Domain: _____

y-int: _____

Range: _____

