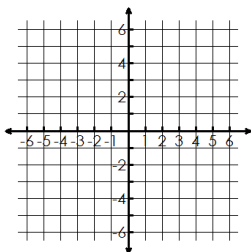


Name _____

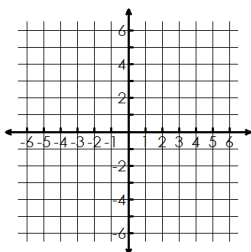
Date _____

Types of Rational Graphs:

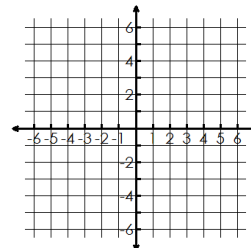
1.



2.



3.



Characteristics:

1.

2.

3.

4.

Graphing Examples:

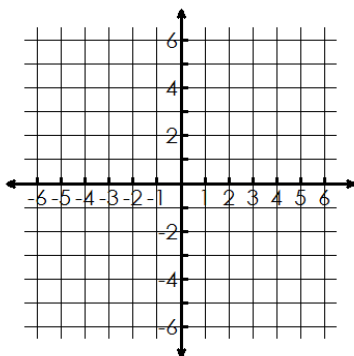
1. $f(x) = \frac{2}{x+3}$

Vert: _____

Hor: _____

x-Int.: _____

y-int: _____



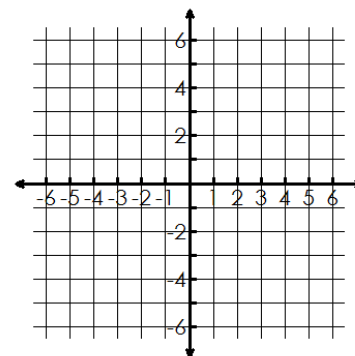
2. $f(x) = \frac{x^2 - 4x + 3}{x^2 + x - 6}$

Vert: _____

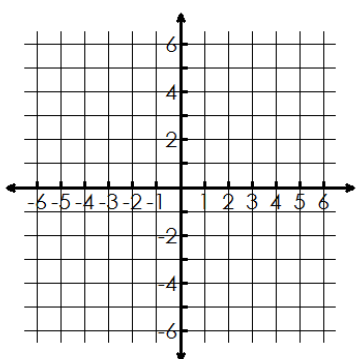
Hor: _____

x-Int.: _____

y-int: _____



Find the vertical & horizontal asymptotes, x & y intercepts for the following rational functions.

<p>1. $f(x) = \frac{1}{x-2}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p>	<p>2. $f(x) = \frac{2x^2 - 4x}{x^2 - 2x - 3}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p>	<p>3. $f(x) = \frac{1-5x}{1+2x}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p>	
<p>4. $f(x) = \frac{1}{x^2 - 4}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p>	<p>5. $f(x) = \frac{5}{x+3}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p>	<p>6. $f(x) = \frac{2x-3}{x-1}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p>	
<p>7. $f(x) = \frac{-4}{x-3}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p> 		<p>8. $f(x) = \frac{x-1}{x^2 - 4}$</p> <p>Vert: _____ Hor: _____</p> <p>x-Int.: _____ y-int: _____</p> 