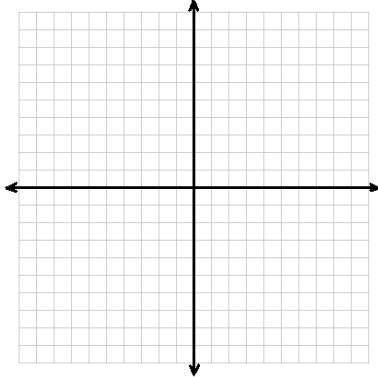


Graphing Radical Equations
Graphing Basic Rational Expressions

Warm-up:

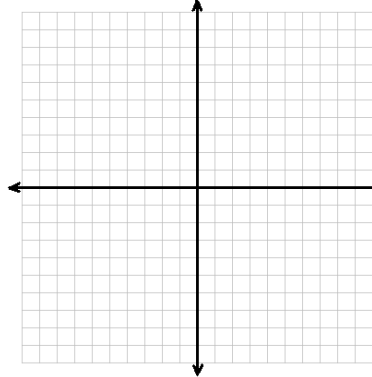
Graph the following

1. $f(x) = |x + 2| - 3$



VERTEX: _____
 AXIS of SYM: _____
 OPENS: _____
 Slope: _____

2. $f(x) = -(x + 2)^2 - 8$



VERTEX: _____
 AXIS of SYM: _____
 OPENS: _____
 x-int: _____
 y-int: _____

Calculate the following:

1) $\sqrt{16}$

2) $\sqrt{86 - 5}$

3) $\sqrt{1 + 3} + 5$

4) $4\sqrt{25 - 14}$

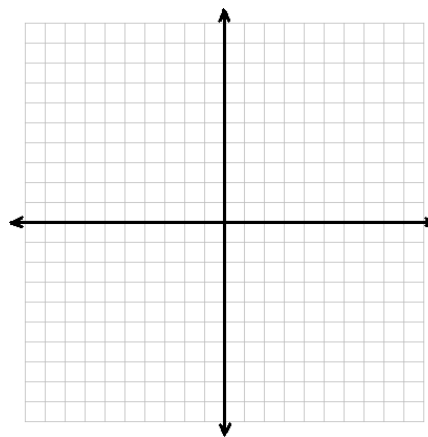
Graphing Radical Equations:

Graph the following:

1. $y = \sqrt{x}$

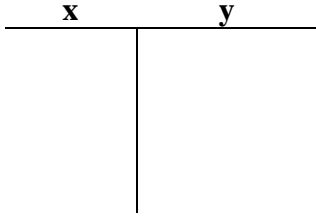
x	y
-1	
0	
4	
9	

Domain: _____
 Range: _____



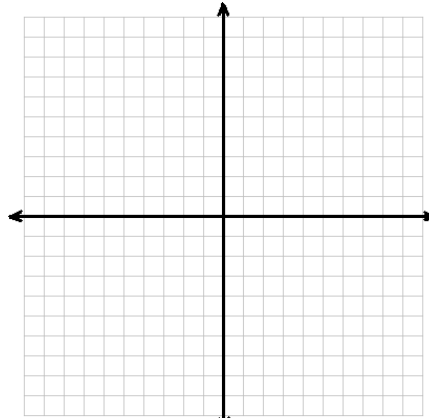
Graphing Radical Equations
Graphing Basic Rational Expressions

2. $y = \sqrt{x} + 1$

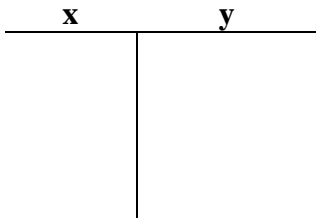


Domain: _____

Range: _____

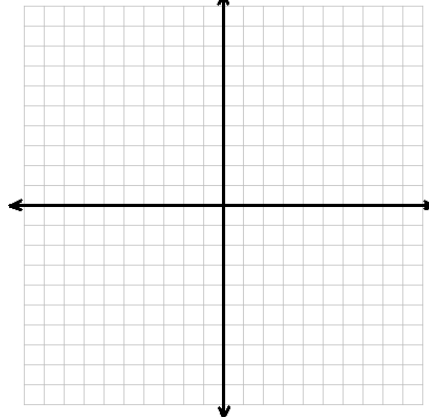


3. $y = 3\sqrt{x}$

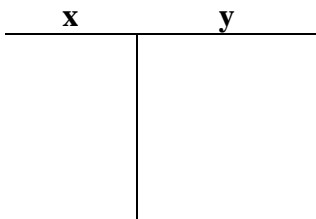


Domain: _____

Range: _____

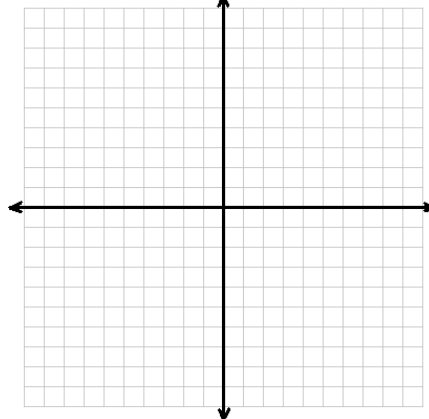


4. $y = \sqrt{x - 1}$



Domain: _____

Range: _____

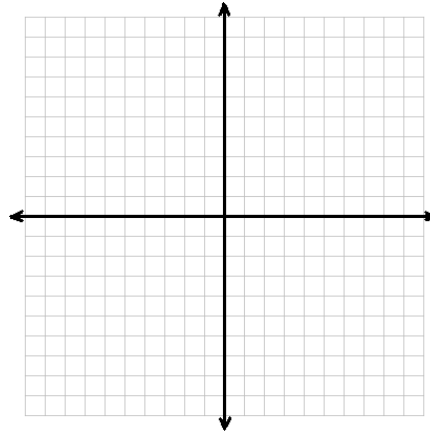
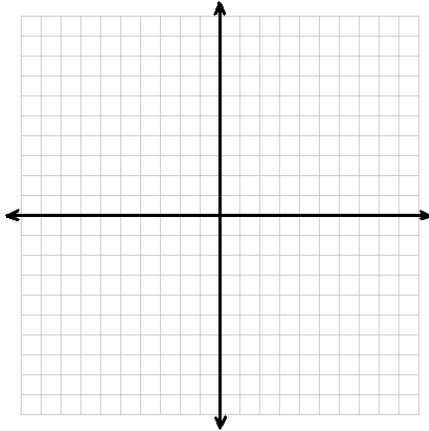


Graphing Radical Equations
Graphing Basic Rational Expressions

WARM-UP

1. $y = \sqrt{x - 1}$

2. $y = x^2 - 2$



Domain: _____
Range: _____

VERTEX: _____
AXIS of SYM: _____
OPENS: _____
x-int: _____
y-int: _____

Find the values that make the expression false:

1) $\frac{1}{x}$

2) $\frac{1}{x - 1}$

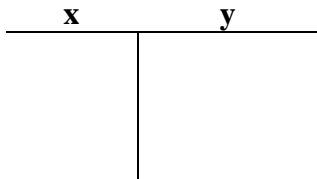
3) $\frac{5}{2x - 1}$

4) $\frac{17}{3x - 4}$

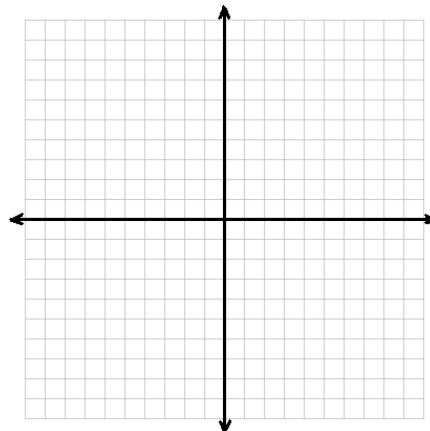
Graphing Simple Rational Expression:

Graph the following:

1. $y = \frac{1}{x}$

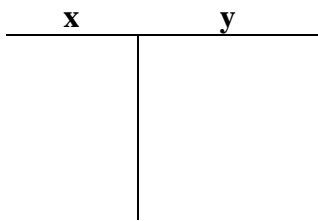


Vertical Asymptote: _____

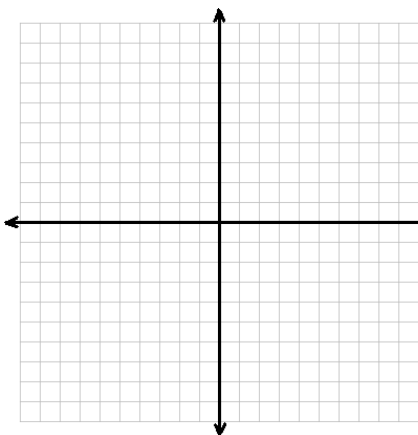


Graphing Radical Equations
Graphing Basic Rational Expressions

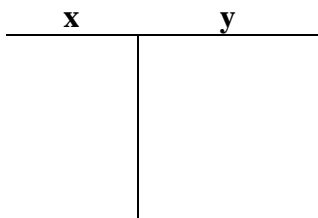
2. $y = \frac{1}{x-2}$



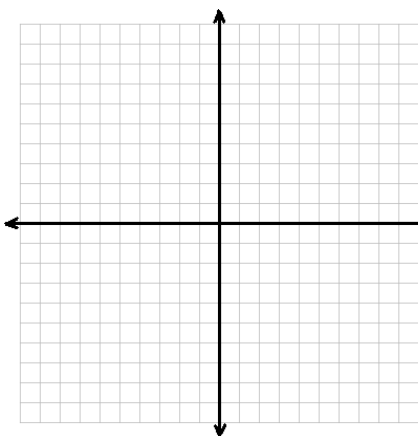
Vertical Asymptote: _____



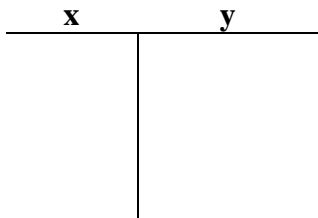
3. $y = \frac{4}{x-5}$



Vertical Asymptote: _____



4. $y = \frac{4}{x} + 1$



Vertical Asymptote: _____

