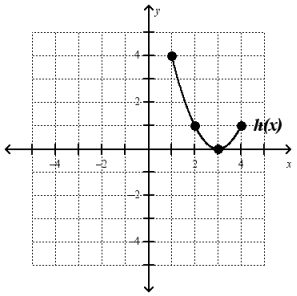
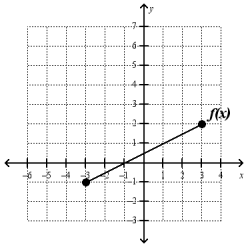
Assignment 25

Function Practice

1. $h(x)$ is shown graph $g(x) = h(x+3) - 4$.



2. $f(x)$ is shown graph $g(x) = f(x+2) + 5$.



3. Given that $f(x)$ is a parent function describe the transformations to graph $g(x) = f(x) + 3$.

4. Given that $h(x)$ is a parent function describe the transformations to graph $f(x) = h(x+1) - 4$.

5. Given that $g(x)$ is a parent function describe the transformations to graph $h(x) = h(x-5)$.

Absolute Value Practice

1. Write down the coordinates (x, y) of the vertex for the absolute value graph $y = |x-5| + 3$.

2. Write down the coordinates (x, y) of the vertex for the absolute value graph $y = |x| - 5$.

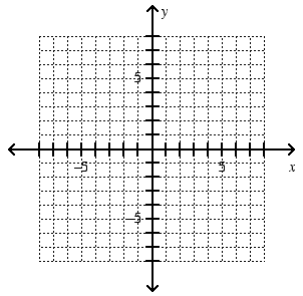
3. Write down the coordinates (x, y) of the vertex for the absolute value graph $y = |x+3| - 2$.

4. Write down the coordinates (x, y) of the vertex for the absolute value graph $y = |x+4|$.

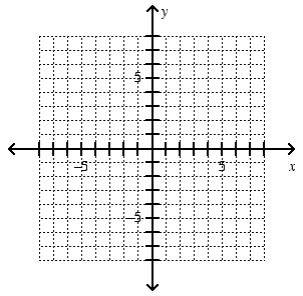
Graphing Absolute Value Practice

Graph each absolute value equation start with the vertex and show enough "good points".

1. $y = |x-3| + 1$



2. $y = |x+4|$



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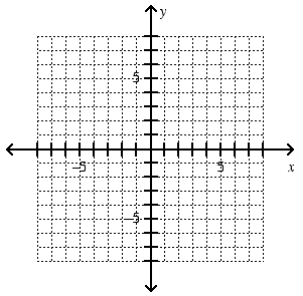
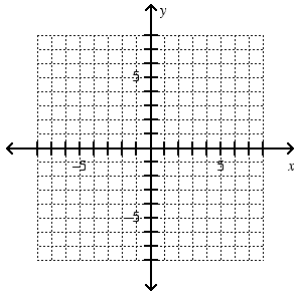
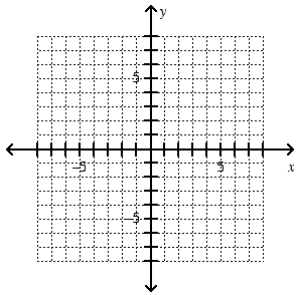
3. $y = |x+2| - 3$



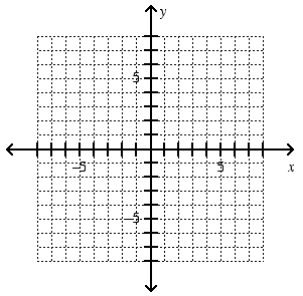
4. $y = -|x-5| + 3$



5. $y = |x| - 6$



4. $y = -|x+2| - 1$



More Function Practice

1.
Let $f(x) = -2x - 5$, find:

a) $f(2)$

b) $f(0)$

c) $f(-2)$

2.
Let $f(x) = \frac{1}{3}x + 2$, find:

a) $f(9)$

b) $f(3)$

c) $f(-6)$

3.
Let $f(x) = -\frac{3}{4}x$, find:

a) $f(12)$

b) $f(-4)$

c) $f(-20)$

Systems Review and Practice

Solve each system, remember need both an x and a y!

1. $x + 3y = 11$
   $3x + 2y = 5$

2. $2x + y = 4$
   $3x + y = 9$

3. $y = 3x + 1$
   $2x + 5y = 22$

4. $4x - 2y = 16$
   $x + 2y = 9$

5. $4x + 3y = 4$
   $3x + 2y = 2$

Final Exam Review

1. Solve for x: $\frac{3}{5}x = 60$

2. Solve for x: $3x + 9 - x = 33 - 4x$

3. Solve the inequality: $\frac{x}{-5} > 2$

4.
Write the equation in slope intercept form: $3x + 2y = 10$

5.
Solve and graph the following compound inequality:
$2x - 6 > 10$ or $x - 5 \le -3$