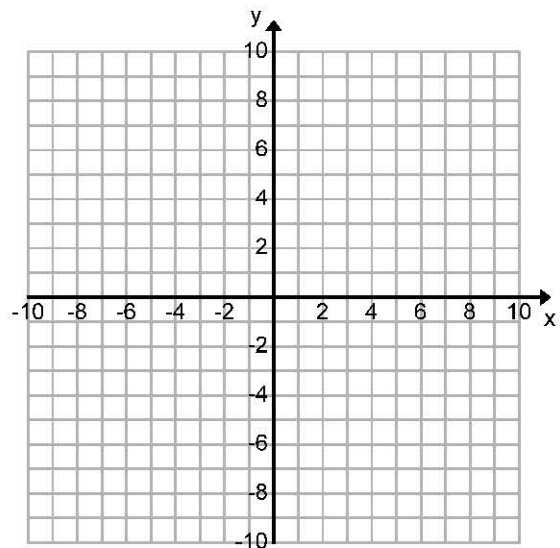
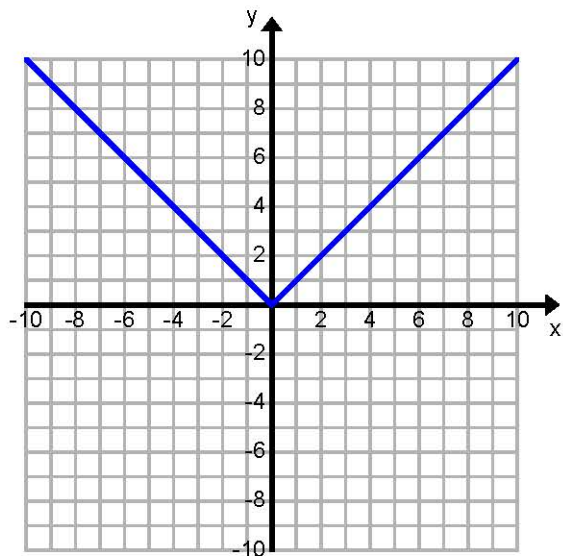


Reflection about the x-Axis

- The graph of $y = -f(x)$ is the graph of $y = f(x)$ reflected about the x-axis.
 - Draw the graph of f and **reflect the graph of f about the x-axis.**
 - Changes in the equation $y = f(x)$: $f(x)$ is multiplied by -1 .

Example 3:

- a. Use the graph of $f(x) = |x|$ to obtain the graph of $g(x) = -|x|$.

**Reflection about the y-Axis**

- The graph of $y = f(-x)$ is the graph of $y = f(x)$ reflected about the y-axis.
 - Draw and graph of f and **reflect the graph of f about the y-axis.**
 - Changes in the equation of $y = f(x)$: x is replaced with $-x$.

- b. Use the graph of $f(x) = \sqrt[3]{x}$ to obtain of $h(x) = \sqrt[3]{-x}$.

