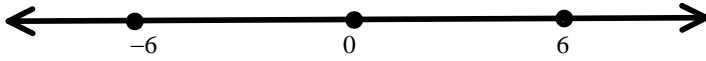


Absolute Value Functions

Absolute Value - the distance from zero.

$$|-6| =$$

$$|6| =$$



Directions: Evaluate each.

1. $|0-3| =$

4. $- (|-9| - |-7|) =$

2. $|-4-4| =$

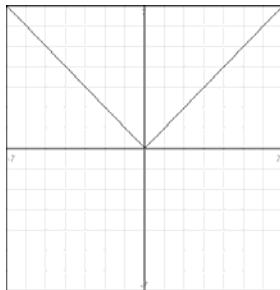
5. $|10| - |-6| - |4| =$

3. $|6 - (-3)| =$

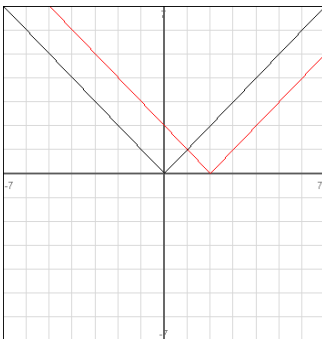
6. $|(4-9) + |-3|| =$

Absolute Value Function

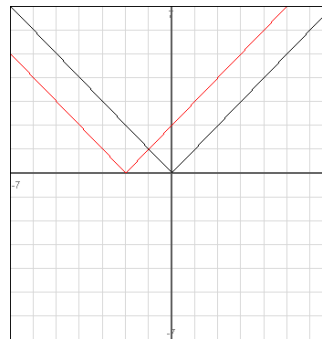
$$f(x) = |x|$$



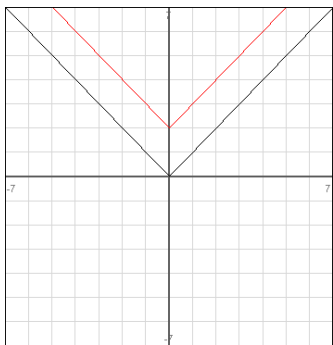
$$f(x) = |x-2|$$



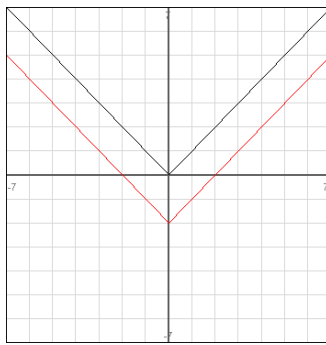
$$f(x) = |x+2|$$



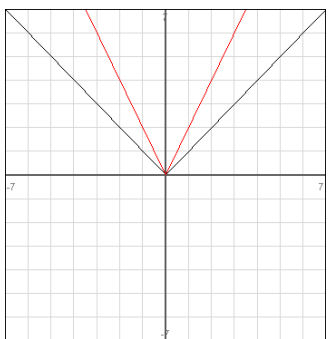
$$f(x) = |x| + 2$$



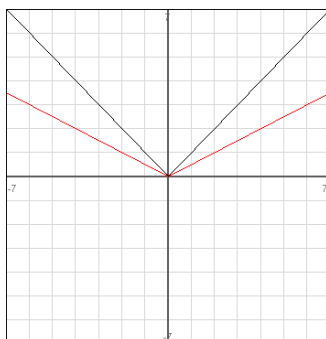
$$f(x) = |x| - 2$$



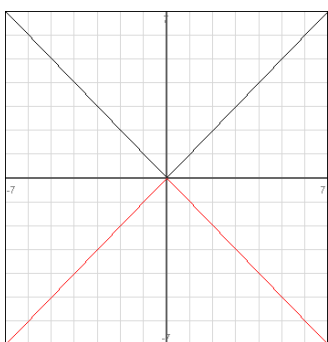
$$f(x) = 2|x|$$



$$f(x) = \frac{1}{2}|x|$$

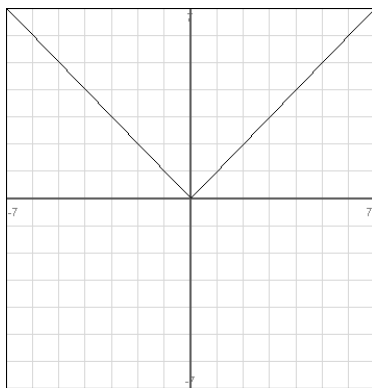


$$f(x) = -|x|$$

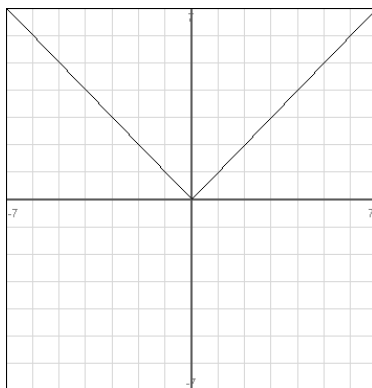


Directions: Sketch a graph of each function and find the domain and range.

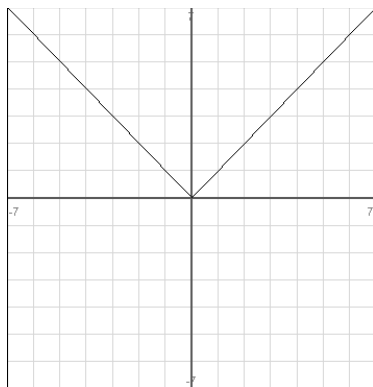
7. $f(x) = |x-3|+1$



8. $f(x) = -|x+1|$



9. $f(x) = 4|x-1|$



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

