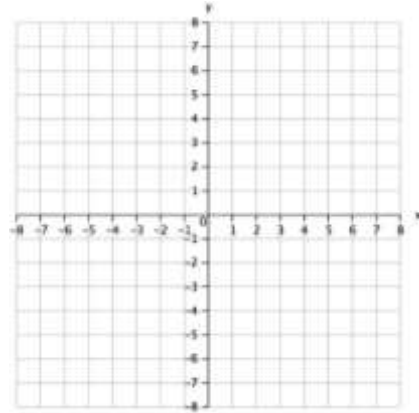


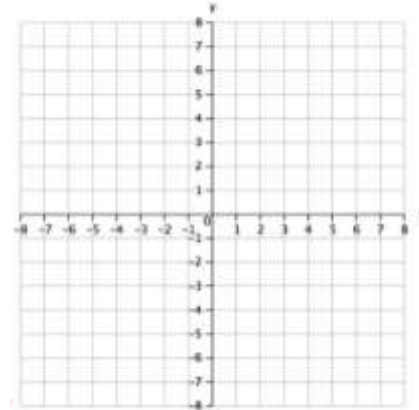
Absolute Value Functions and Graphs Assignment

Graph each equation.

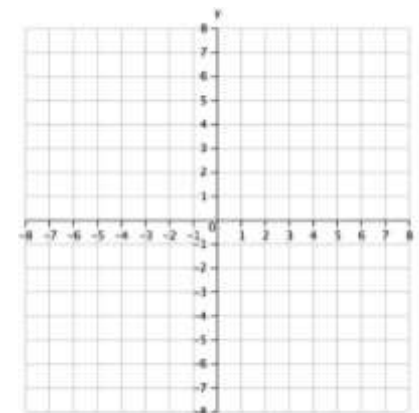
1. $Y = |x - 2| - 4$



2. $Y = |x + 1|$

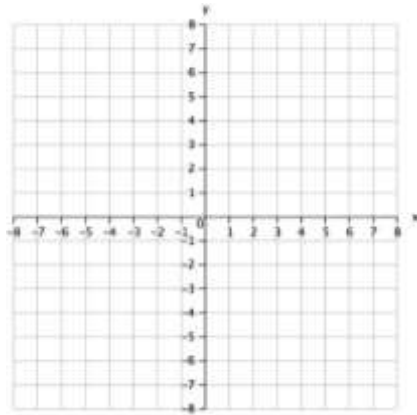


3. $y = |x| + 1$

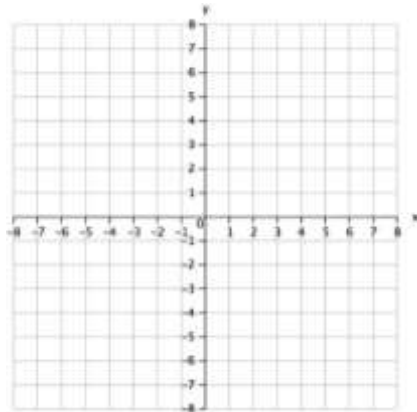


Absolute Value Functions and Graphs Assignment

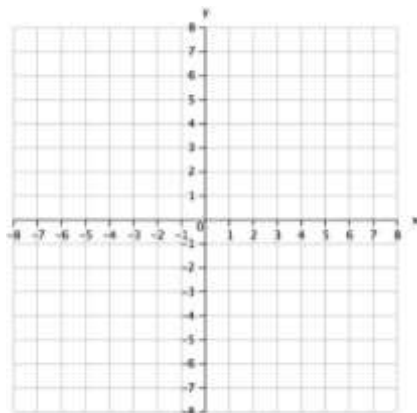
4. $y = |x| + 2$



5. $y = |x + 2|$



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



7. If $f(x) = |x - 2|$ find $f(-2)$

Absolute Value Functions and Graphs Assignment

8. If $f(x)=|3x - 5|$ find $f(-3)$

9. If $f(x)=|x - 1|$ find $f(1)$

10. If $f(x)=|2x + 4|$ find $f(5)$

Solve the following equations:

11. $|2x - 3| = x$

12. $|x + 1| = 2x - 5$

13. $3 - |x - 2| = 2x$

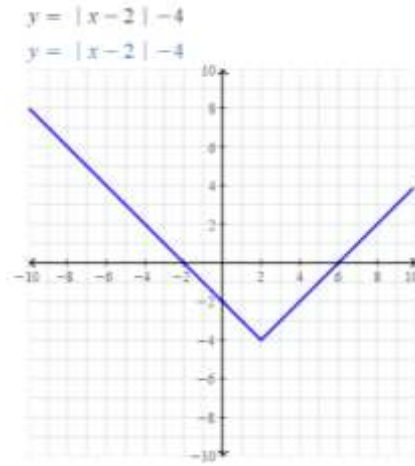
14. $|2x + 4| = x + 1$

15. $|2x - 1| = x + 1$

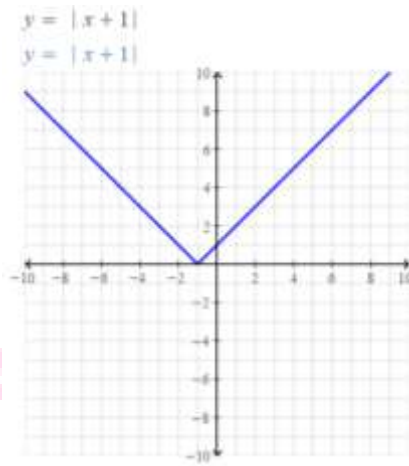
Absolute Value Functions and Graphs Assignment

Graph each equation.

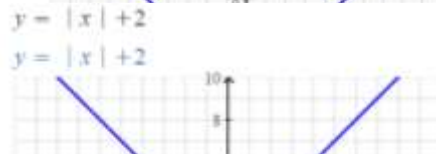
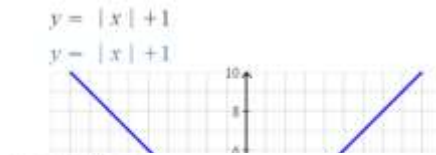
1. $Y = |x - 2| - 4$



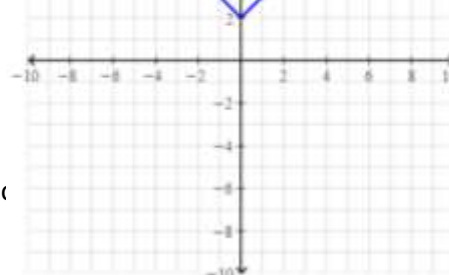
2. $Y = |x + 1|$



3. $y = |x| + 1$

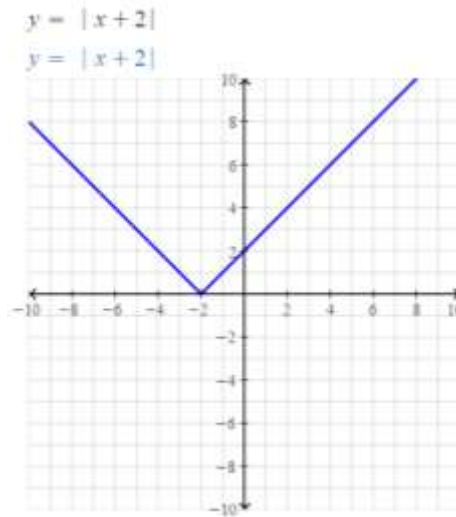


4. $y = |x| + 2$

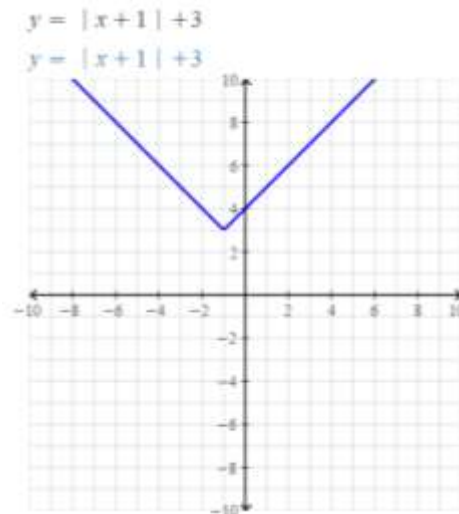


Absolute Value Functions and Graphs Assignment

5. $y = |x + 2|$



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



7. If $f(x) = |x - 2|$ find

$f(-2)$

$f(-2) = |-2 - 2| = |-4| = 4$

Absolute Value Functions and Graphs Assignment

8. If $f(x)=|3x - 5|$ find $f(-3)$

$$f(-3)= |3(-3) - 5| = |-9 - 5| = |-14| = 14$$

9. If $f(x)=|x - 1|$ find $f(1)$

$$f(1)= |1 - 1| = |0| = 0$$

10. If $f(x)=|2x + 4|$ find $f(5)$

$$f(5)= |2(5) + 4| = |10 + 4| = |14| = 14$$

Solve the following equations:

11. $|2x - 3| = x$

$$|2x - 3| = \pm x$$

$$(2x - 3) = \pm x$$

$$2x - 3 = +x$$

$$2x - x = 3$$

$$x = 3$$

$$x = 3$$

$$2x - 3 = -x$$

$$2x + x = 3$$

$$3x = 3$$

$$x = 1$$

Absolute Value Functions and Graphs Assignment

12. $|x + 1| = 2x - 5$

$$x + 1 = \pm(2x - 5)$$

$$x + 1 = +(2x - 5)$$

$$x - 2x = -5 - 1$$

$$-x = -6$$

$$x = 6$$

$$x + 1 = -(2x - 5)$$

$$x + 2x = 5 - 1$$

$$3x = 4$$

$$x = 4/3$$

13. $3 - |x - 2| = 2x$

$$3 - 2x = |x - 2|$$

$$|x - 2| = 3 - 2x$$

$$x - 2 = \pm(3 - 2x)$$

$$x - 2 = +(3 - 2x)$$

$$x + 2x = 3 + 2$$

$$3x = 5$$

$$x = 5/3$$

$$x - 2 = -(3 - 2x)$$

$$x - 2x = -3 + 2$$

$$-x = -1$$

$$x = 1$$

14. $|2x + 4| = x + 1$

$$|2x + 4| = x + 1$$

$$2x + 4 = \pm(x + 1)$$

Absolute Value Functions and Graphs Assignment

$$2x + 4 = +(x + 1)$$

$$2x - x = 1 - 4$$

$$x = -3$$

$$x = -3$$

$$2x + 4 = -(x + 1)$$

$$2x + x = -4 + 1$$

$$3x = -3$$

$$x = -1$$

15. $|2x - 1| = x + 1$

$$2x - 1 = \pm(x + 1)$$

$$2x - 1 = +(x + 1)$$

$$2x - x = 1 + 1$$

$$x = 2$$

$$x = 2$$

$$2x - 1 = -(x + 1)$$

$$2x + x = 1 + 1$$

$$3x = 2$$

$$x = 2/3$$