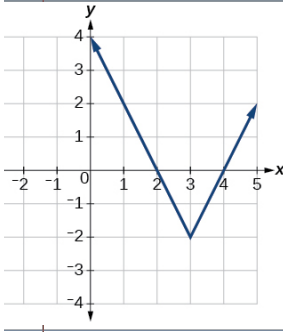
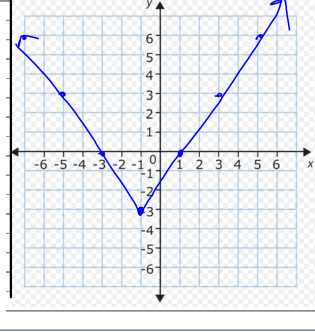


Daily Quiz

A Write the equation of the following absolute value function.
 $y =$ _____



B Graph the equation of the following absolute value function. $a = \frac{3}{2}$
 $y = \frac{3}{2}|x+1| - 3$ $v(1, 3)$

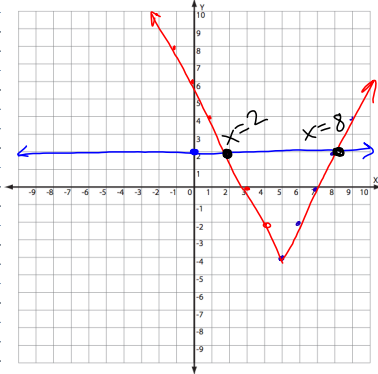


M1L2.2 Solving Absolute Value Equation Graphically

Objective: Students will be able to graph absolute value equations graphically and find the solutions of the function.

1 Example Solve the equation graphically.

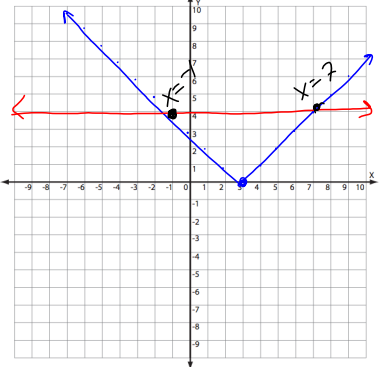
$2|x-5|=4 = 2$
 Left side $a = \frac{2}{2} = 1$
 $v(5, -4)$ $y = 2$



The soln. is $x = 2$ & $x = 8$

2 Example Solve the equation graphically.

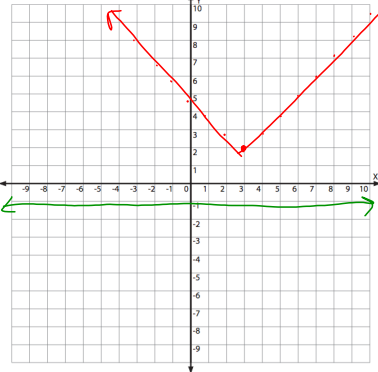
$|x-3|=4$
 $a = \frac{1}{1} = 1$ $y = 4$
 $v(3, 0)$



The soln. are $x = -1$ & $x = 7$

4 Example Solve the equation graphically.

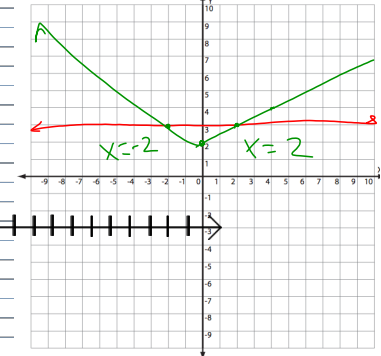
$|x-3| + 2 = -1$
 $a = \frac{1}{1} = 1$ $y = -1$
 $v(3, 2)$



NO soln.

4 Example Solve the equation graphically.

$\frac{1}{2}|x| + 2 = 3$
 $a = \frac{1}{2}$ $y = 3$
 $v(0, 2)$



$x = -2$ $x = 2$