Algebra 1 Hwk #23 Sec 6-7 Absolute Value Graphs Name:

Describe all the transformation of $y = |x|$ each equation represents.

1. $y = 5|x - 8| + 3$

2. $y = -4|x + 2| - 3$

Write the equation of each transformation of $y = |x|$

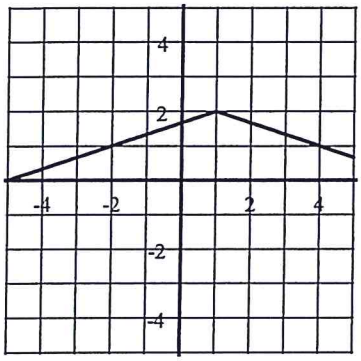
3. Translated 10 units left, 6 units down, twice as tall, opens down.

EQ:

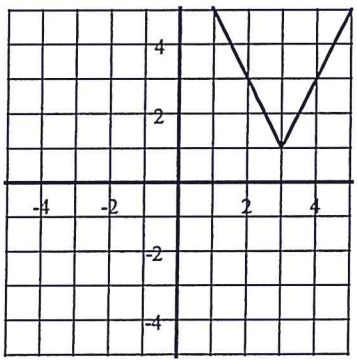
4. Translated 1 unit up, half as tall, and opens up.

Write the equation of each absolute value function.

5. EQ

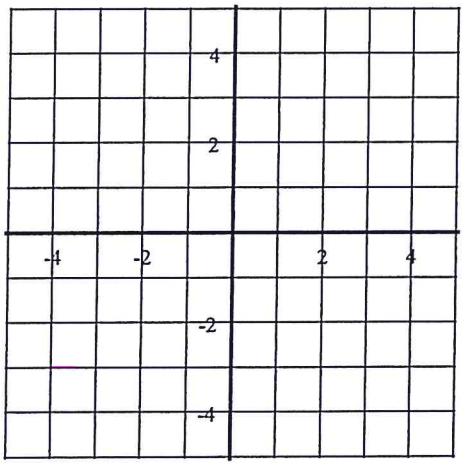


6. EQ



Graph each absolute value function.

7. $y = -3|x - 2| + 5$



8. $y = \frac{1}{2}|x + 1| - 3$