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

1. $y = -3|x + 1| - 7$ 　　　　　　　　　　2. $y = 6|x - 8| + 2$

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

3. Translated 16 units left, 7 units up, twice as tall, opens down.
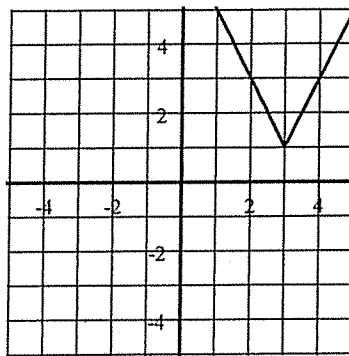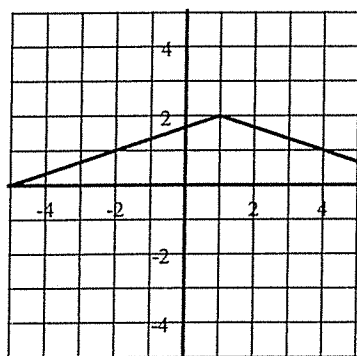
EQ:

4. Translated 8 units down, one-third 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. $y = \frac{1}{2}|x - 1| - 3$