Quiz 3
Math 80
Version A Answers Name_____

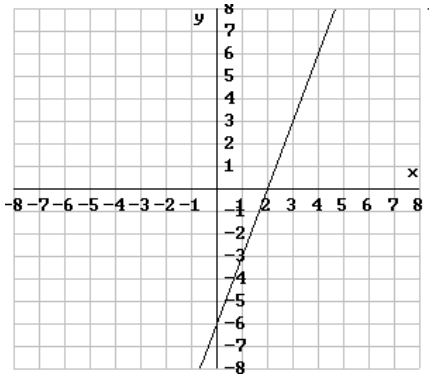
You have 20 minutes to complete this quiz. No calculators allowed. Please show your work carefully! Good luck!

For numbers 1-4, write the equation of the line that is described. Put your final answer in slope-intercept form, if possible.

1. Slope $-\frac{4}{5}$, passes through $\left(0,-\frac{1}{7}\right)$

$y=-\frac{4}{5}x-\frac{1}{7}$

2.



$y=3x-6$

3. Passes through $(5,1)$ and $(-5,0)$

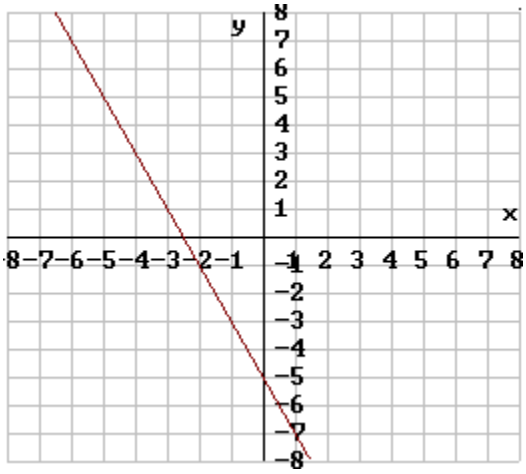
$y=\frac{1}{10}x+\frac{1}{2}$

4. Passes through $(8,4)$ and $(8,-2)$

$x=8$

5. Sketch a graph of the equation $2x + y = -6$. (Hint: First solve for y.)

$y = -2x - 6$



Use the following information to answer problems 6 and 7:

An electronics store has experienced a linear drop in sales of computers since it opened. During their 5th year they sold 900 computers, but in their 8th year they only sold 600 computers.

6. Write a linear equation to express the number of computers sold, C, in terms of t, the number of years since the store opened.

$C = -100t + 1500$

7. Use your equation to predict how many computers the store will sell in its 10th year. **Please answer in a complete English sentence.**

The store will sell 300 computers in it 12th year.