

# ALGEBRA 1 - Unit Test 1, Chapters 1-11 Review

## I. Simplify

1.  $-4^3 =$

2.  $-4 - 2^3 + 4 \times 5 =$

3.  $|4-3| - |2-8| =$

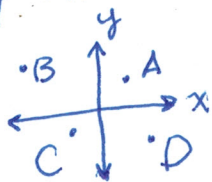
## II. SOLVE

4.  $4x - 4 + 3x = 8 - x$

5.  $\frac{1}{4}x + \frac{2}{3} = \frac{4}{9}$

6.  $5.6x + .3 = 9.8$

7. Which point is found in the fourth quadrant?



8. Give the slope and intercept of the following line.

$$4y - x = 12$$

9. Write the equation of a line that passes through  $(-2, 1)$  and is parallel to line  $y = \frac{1}{2}x + 5$ .  
Graph and label both lines. 2/2

10. Find the equation for a line passing through points  $(3, 1)$  AND  $(-1, -3)$ .

11. Which of the following lines are parallel?

a.  $2y + 2x = 8$

b.  $y = x + 8$

c.  $-3x - 3y = 8$

d.  $y - x = 10$

12. Katherine borrowed \$2500 to open a bookstore. She made \$200 per day. If  $M$  = money and  $D$  = days, write an ~~eq~~ equation to express her financial condition.

EXTRA CREDIT: How many days does Katherine need to operate to break even?