

UNIT TEST **Lessons 1-11** (100 points possible)

I. Simplify. (4 points each)

1. -3^2

2. $-2 + 3^2 - 1 \times 4$

3. $|3 - 2| - |1 - 4|$

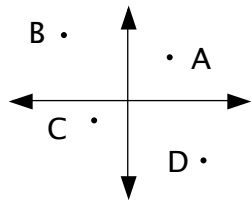
II. Solve. (6 points each)

1. $3X - 2 + 2X = 4 - X$

2. $\frac{1}{2}B + \frac{1}{3} = \frac{2}{9}$

3. $.03Y + 1 = 4.3$

III. Which point is found in the second quadrant? (5 points)



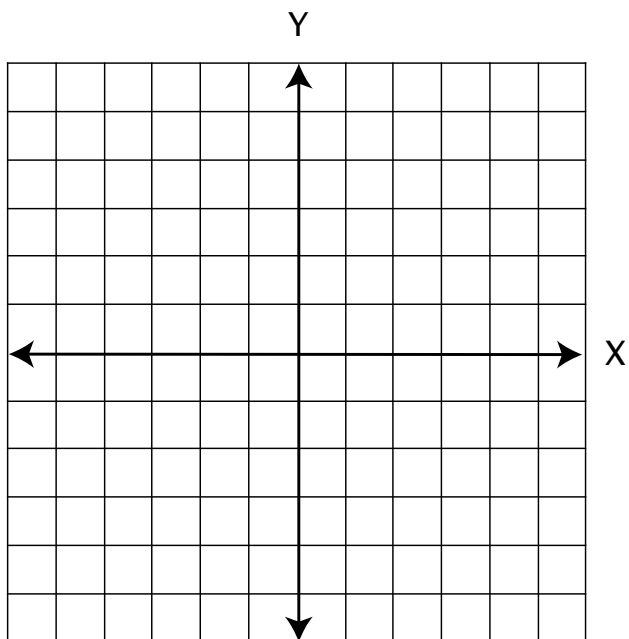
IV. Label each of the following as an example of the commutative, associative, or distributive property. (4 points each)

1. $(r + s) + t = r + (s + t)$

2. $B(C + D) = BC + BD$

3. $3 + 8 = 8 + 3$

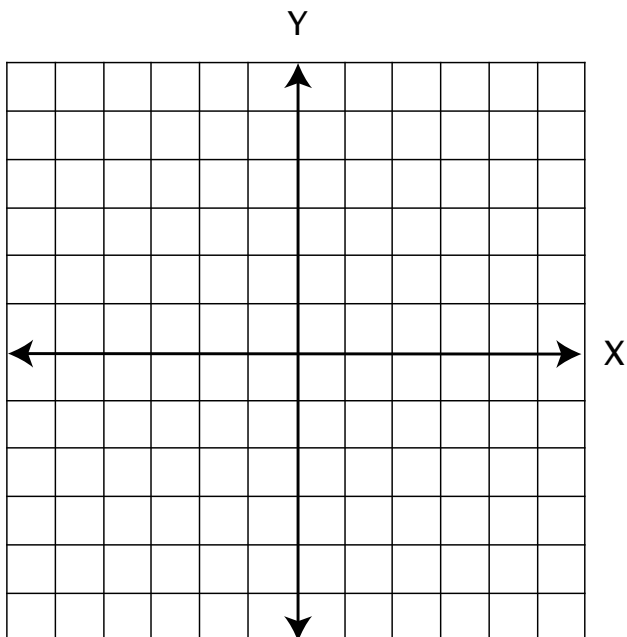
V. Graph the following lines. (6 points each)



1. $X = -1$

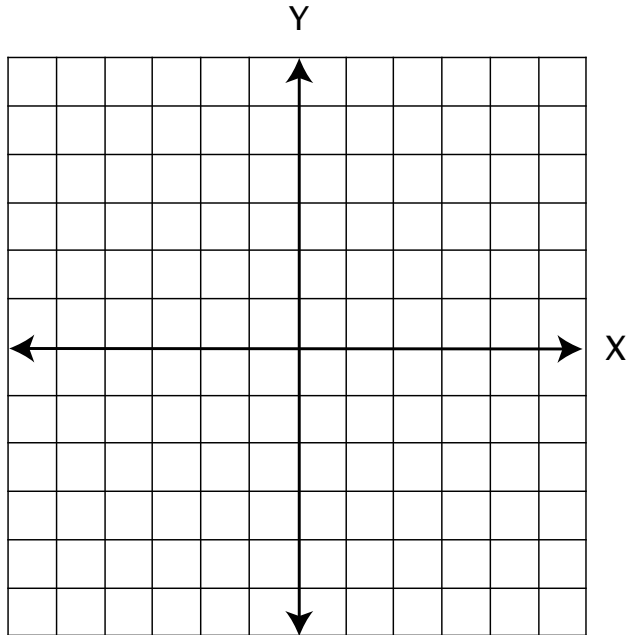
2. $Y = 2X - 1$

- VI. Give the slope and intercept of the following line and graph it: $Y + 3 = -2X$. (10 points)



- VII. Susan started her lemonade stand with a loan of \$2. She was able to make \$3 a day. If M = money and D = days, write an equation for the line that represents her financial condition. (5 points)

- VIII. Write the equation of the line through $(2, 1)$ that is perpendicular to line $Y = 3X$. Graph both lines. (10 points)



- IX. Find the equation for a line passing through $(2, 1)$ and $(0, 4)$. (10 points)

- X. Which of the following lines are parallel? (6 points)

- a. $Y = 3X + 7$
- b. $Y = -71 + 3X$
- c. $Y + 3X = 7$
- d. $3X = Y + 12$