

Name _____

Chapter 1 Review HW

Lessons 1-5 through 1-9

1. Is the ordered pair $(-3, 2)$ a solution to the equation $5x + 2y = -11$? Show your work.
2. Is the ordered pair $(-2, 7)$ a solution to the equation $18 - 4x = -2x - 12$? Show your work.
3. Is the ordered pair $(-1, 7)$ a solution to the equation $7x + y = y - 7$? Show your work.

Evaluate each expression for $m = 3$ and $n = -2$.

4. $2n + 6$
5. $-3m - n$
6. $(mn)^2$

Simplify each expression.

7. $6f^2g - 10f^2g$
8. $-5 - 8$
9. $2.5 - (-4.2)$
10. $-(-7y + 12)$
11. $\frac{2}{3}[9n - (-15)]$
12. $(-a + 100)\frac{1}{5}$

13. Are $12x^2y^3z$ and $-45zy^3x^2$ like terms? Explain.
14. Describe the process for adding two numbers with different signs.
15. Is the following statement true or false? If the sum of three numbers is negative, then all three numbers are negative. If false, give a counterexample.

Answers:

1. Yes; $-11 = -11$
2. No; $26 \neq -8$
3. Yes; $0 = 0$
4. 2
5. -7
6. 36
7. $-4f^2g$
8. -13
9. 6.7
10. $7y - 12$
11. $6n + 10$
12. $-1/5a + 20$
13. Yes; same variables, same degrees
14. Take difference between them; give the sign of the number with the largest absolute value
15. False; $-12 + 3 + 4 = -5$ or $-2 + -3 + 4 = -1$