1. Simplify each expression. LEAVE YOUR ANSWERS IN **POSITIVE EXPONENTIAL FORM.**

    a. $\dfrac{15p^4}{3p^2} \cdot (p^0) =$

    b. $\dfrac{a^7 y^3}{a^2 y^{-8}} =$

    c. $(-4)^3 \cdot (-4)^{10} =$

    d. $m^3 \cdot n^3 =$

2. Write each equation in slope-intercept form, then identify the slope and y-intercept.

    a) $-6x + 3y = 18$ slope =

                                                    y-intercept =

    b) $-42x = -6y - 12$ slope =

                                                    y-intercept =

Solve for x. Show all of your work.

3. $4x + 30 = -7 + 4x + 10$

    a. answer:

    b. equation type: consistent, inconsistent or identity?

    c. number of solutions:

4. $5(x - 4) + 3x = 12x + 18 - 4x + 2$

    a. answer:

    b. equation type: consistent, inconsistent or identity?

    c. number of solutions:

5. $\frac{5}{3}(3x - 2) = 3x + \frac{2}{3}$

6. $3.2x + 7.9x = 9.9x + 4.8$