

Algebra review 3

Solve the following equations.

1.  $2x - 3(5x + 4) = 6(x - 2)$

2.  $5x(3x + 7) = 0$

3. Solve the following system of equations.

$$\begin{cases} x + y = -1 \\ 3x + 2y = 1 \end{cases}$$

4. Simplify and write your answer without using negative exponents. Assume all variables have are not equal to zero.

a.  $3x^4y^{-3}$

b.  $\frac{9x^{10}y^{-2}z}{12x^5yz^{-2}}$

c.  $(-3x^{-2})^3$

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Answers: 1. 0   2. 0,  $-\frac{7}{3}$    3. (3, -4)   4a.  $\frac{3x^4}{y^3}$    b.  $\frac{3x^5z^3}{4y^3}$    c.  $\frac{-27}{x^6}$