

Algebra Review #34 SHOW HOW YOU SOLVED EACH PROBLEM

1.

Solve:

$$(6x^2 - 10xy - 9y) + (5x^2 - 5xy - y)$$

2.

Solve:

$$(30x^2 + 5xy - y) - (45x^2 + 18xy - 6y)$$

3. Draw a model to represent $(4x - 1)(2x + 2)$.

Write the polynomial solution to $(4x - 1)(2x + 2)$:

NAME _____

4. Find the mistake in the problem, circle it, and then fix the work:

Joe Schmoie

You

$$8x - 27 - 10 - 6x = 15$$

$$2x - 27 - 10 = 15$$

$$2x - 17 = 15$$

$$+ 17 + 17$$

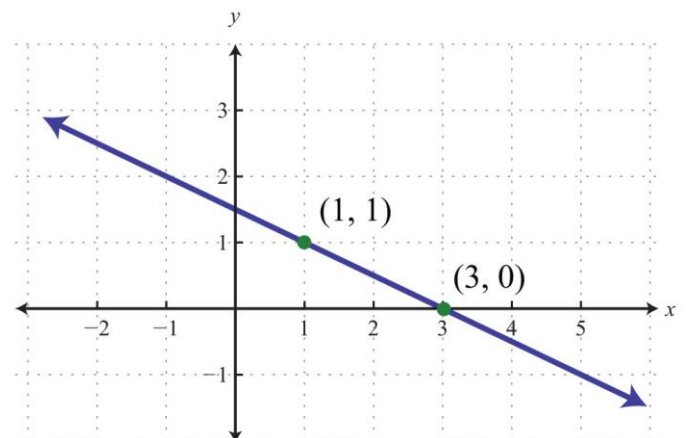
$$\frac{2x}{2} = \frac{32}{2}$$

$$x = 16$$

5. Find the equation of a line between the points $(0,2)$ and $(1, -2)$.

6. Write an equation for the graph shown below:

Y-intercept _____ Slope _____



7. Simplify $2\sqrt{150} - \sqrt{486}$

8. Write a system of equations to describe the situation below, solve and fill in the blanks.

Miki had brochures printed for her new business venture. She originally ordered 5 boxes of black-and-white brochures and 3 boxes of color brochures, which cost a total of \$140. After those ran out, she spent \$114 on 3 boxes of black-and-white brochures and 3 boxes of color brochures. Given that the prices didn't change, what was the price of each type of brochure?

The prices were \$ for a box of black-and-white brochures and \$ for a box of color brochures.

9. Simplify:

$$\frac{2(2xy^3)^2}{y^7}$$

10. Solve for x:

$$\frac{1}{8} = \frac{(x+5)}{24}$$