

Algebra Review #22 SHOW HOW YOU SOLVED EACH PROBLEM

1. Evaluate the following and write your final answer as a mixed number.

What is the value of $\frac{3ab}{2c^2}$ when $a = 3$, $b = 5$, and $c = -2$?

2.

The function below contains ordered pairs of the form (x, y) .

$$f = (6, 8), (-4, 3), (5, 1)$$

What is the range of the function?

- A {1, 3, 8}
- B {5, 6}
- C {-4, 5, 6}
- D {-4, 1, 3, 5, 6, 8}

3. Martha wrote the following steps:

$$4x + (x + 2) = 27$$

$$\text{Step 1: } (4x + x) + 2 = 27$$

Which property did she use to justify this step?

4. Write the equation of a line that passes through $(-1, 4)$ and $(3, 10)$ in point-slope form.

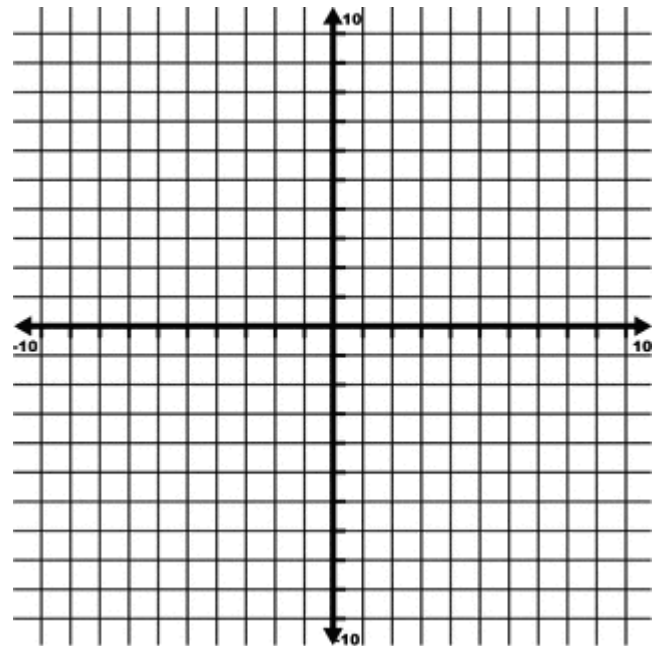
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5. Find the slope and the y-intercept from the following equation (remember, the equation must be in $y=mx+b$ form).

$$x - y = 4$$

Slope: _____ Y-intercept: _____

6. Draw a graph of the equation $y = -3x + 1$



What is the domain? What is the range?

What is the slope? What is the y-intercept?

7. What is the value of the following:

$$3\sqrt{50} + \sqrt{72}$$

8. What is the value of the following:

$$2\sqrt{10} \cdot 5\sqrt{12}$$

9. Solve for d:

$$\frac{4}{5}(10 + 15d) = 8d - 56$$

10. Solve for g.

$$\frac{g - 2fh}{fh} = 4j$$