

Algebra Review #40 SHOW HOW YOU SOLVED EACH PROBLEM

1. Solve each:

$(3x + 10)(2x - 2)$	$(3x - 2)(2x - 1)$
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2. Identify each expression that is a factor of this polynomial.

$$4x^2 - 2x - 2$$

$2x + 1$	2	$x - 1$	$2x - 1$	$4x - 1$
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3. What is the value of $\frac{3}{x+2}$ when $x = 4$?

Your answer must be in the form of a fraction in simplest form.

NAME _____

4. Travis would like to buy some toys to donate to charity. He plans to buy 9 dolls at d dollars each, 2 toy cars at c dollars each, and 3 train sets at t dollars each. Which expression represents the total cost, in dollars, of these items that Travis wants to buy?

- A $9c + 2t + 3d$
- B $9d - 2c - 3t$
- C $9d + 2c + 3t$
- D $9c - 2t - 3d$

5. When $n > 0$, which expression is equivalent to $\sqrt{42n^9}$ in simplest form?

- A $n^3\sqrt{42}$
- B $n^4\sqrt{42n}$
- C $6n^3\sqrt{7}$
- D $6n^4\sqrt{7n}$

6. Look at the system of equations.

$$\begin{cases} y = -x + 2 \\ 7x + 4y = -1 \end{cases}$$

What is the value of x for the solution to this system of equations?

- A -5
- B -3
- C 3
- D 5

7.

What is the slope of the line represented by $\frac{1}{8}x + 3y = 3$?

A $-\frac{1}{8}$

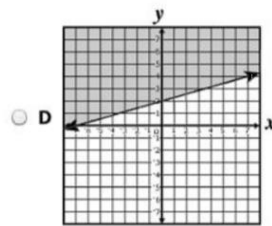
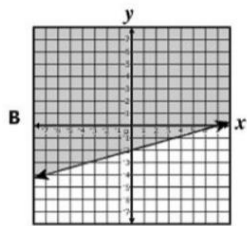
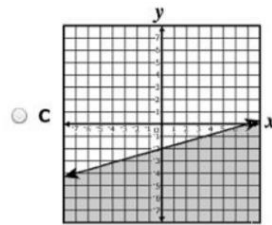
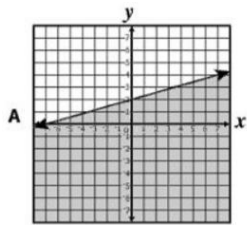
B $-\frac{1}{24}$

C $\frac{1}{24}$

D $\frac{1}{8}$

8.

Which graph best models $y \leq \frac{2}{7}x - 2$?



9.

Which inequality represents all the solutions of $9(4x - 8) < 4(6x + 9)$?

A $x < -3$

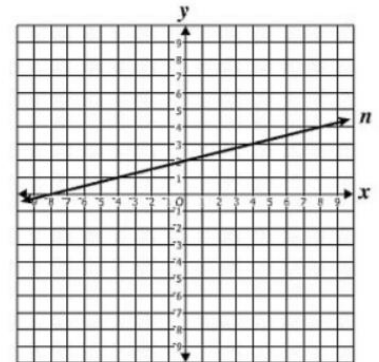
B $x > -3$

C $x < 9$

D $x > 9$

10.

The graph of line n is shown.



Which number is closest in value to the slope of line n ?

A -4

B $-\frac{1}{4}$

C $\frac{1}{4}$

D 4