ALGEBRA 2 - DAY ONE!



Circuit Style: Start your brain training in Cell #1, search for your answer. Label that block as Cell #2 and continue to work until you complete the entire exercise for your Algebra 2 Brain Training.

Answer:	$y = \frac{1}{2}x - 7$
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#1

Answer: $x^2 + xy - 6y^2$

Find the slope of the line containing the points (5, -4) and (-3, -6).

Simplify, no negative exponents.

$$\frac{-45x^6y^2}{9x^3y^7}$$

Answer:
$$2x^3 - 5x^2 - 7x - 2$$

Answer: (4,5)

Factor Completely: $2x^3 - 2x^2 - 24x$

Multiply and simplify:

$$\sqrt{10x^2y^3}\cdot\sqrt{2x^2y}$$

Answer:
$$(2x - 3)(x + 5)$$

Answer: $\frac{1}{4}$

Write the equation of a line with a slope of 3 and passing through the point (-5, -7).

Solve for *y*: 2x + 3y = 12

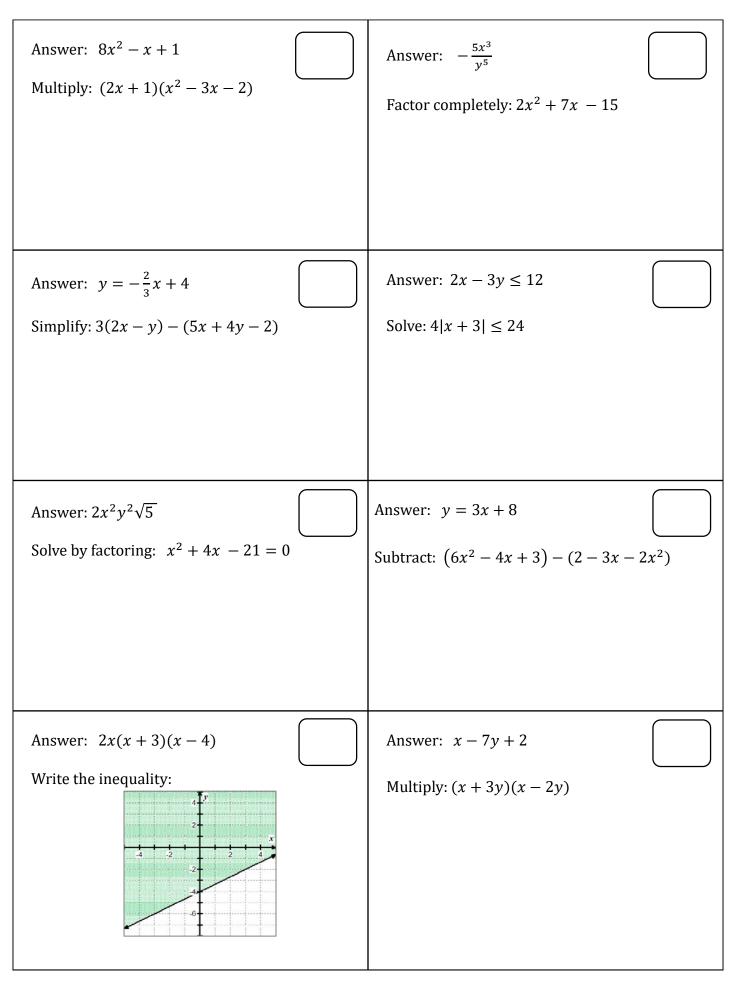
Answer: $-9 \le x \le 3$

Answer: $\{-7, 3\}$

Solve by the addition method.

Write an equation of the line containing the point (6, -4) and perpendicular to the line

y = -2x - 3.



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Answer: $y = \frac{1}{2}x - 7$

#1

Answer: $x^2 + xy - 6y^2$

Find the slope of the line containing the points (5, -4) and (-3, -6).

Simplify, no negative exponents.

$$\frac{-45x^6y^2}{9x^3y^7}$$

Answer: $2x^3 - 5x^2 - 7x - 2$

#10

Answer: (4,5) #14

Factor Completely: $2x^3 - 2x^2 - 24x$

Multiply and simplify:

$$\sqrt{10x^2y^3}\cdot\sqrt{2x^2y}$$

Answer: (2x - 3)(x + 5)

#7

Answer: $\frac{1}{4}$

#2

Write the equation of a line with a slope of 3 and passing through the point (-5, -7).

Solve for *y*: 2x + 3y = 12

Answer: $-9 \le x \le 3$

#13

Answer: $\{-7, 3\}$

#16

Solve by the addition method.

$$\begin{cases} 2x + y = 13 \\ 3x - y = 7 \end{cases}$$

Write an equation of the line containing the point (6, -4) and perpendicular to the line

Answer: $y = -\frac{2}{3}x + 4$

#3

Answer: $2x - 3y \le 12$

#12

Simplify: 3(2x - y) - (5x + 4y - 2)

Solve: $4|x + 3| \le 24$

Answer: $2x^2y^2\sqrt{5}$

#15

Answer: y = 3x + 8

#8

Solve by factoring: $x^2 + 4x - 21 = 0$

Subtract: $(6x^2 - 4x + 3) - (2 - 3x - 2x^2)$

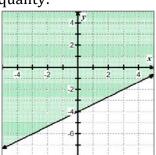
Answer: 2x(x + 3)(x - 4)

#11

Answer: x - 7y + 2

#4

Write the inequality:



Multiply: (x + 3y)(x - 2y)