PRECALCULUS - 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 Pre-Calculus Brain Training.

Answer: $x^3 - 2x^2 - 5x + 6$

#1

Answer: (-2, -6) (3, 14)

Simplify: $\sqrt{45} \cdot \sqrt{30}$

Write the equation of the line that passes through the points (3, -7) and (-6, -13)

Answer: $\frac{x^2 + 2xy - y^2}{x^2y^2}$

Answer: $2x^3 + x^2 - x + 3$

Factor Completely: $3x^3 - 2x^2 - 8x$

State the domain for: $y = \sqrt{x+3} - 2$

Answer: $y \ge -2|x+1| + 3$

Answer: $\frac{16x^9}{y}$

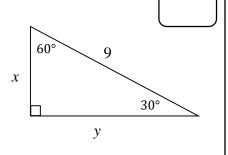
Let $f(x) = x^2 - 4x$ and g(x) = 2x - 3.

Find f(g(5)).

Add: $\frac{x-y}{x^2y} + \frac{x+y}{xy^2}$

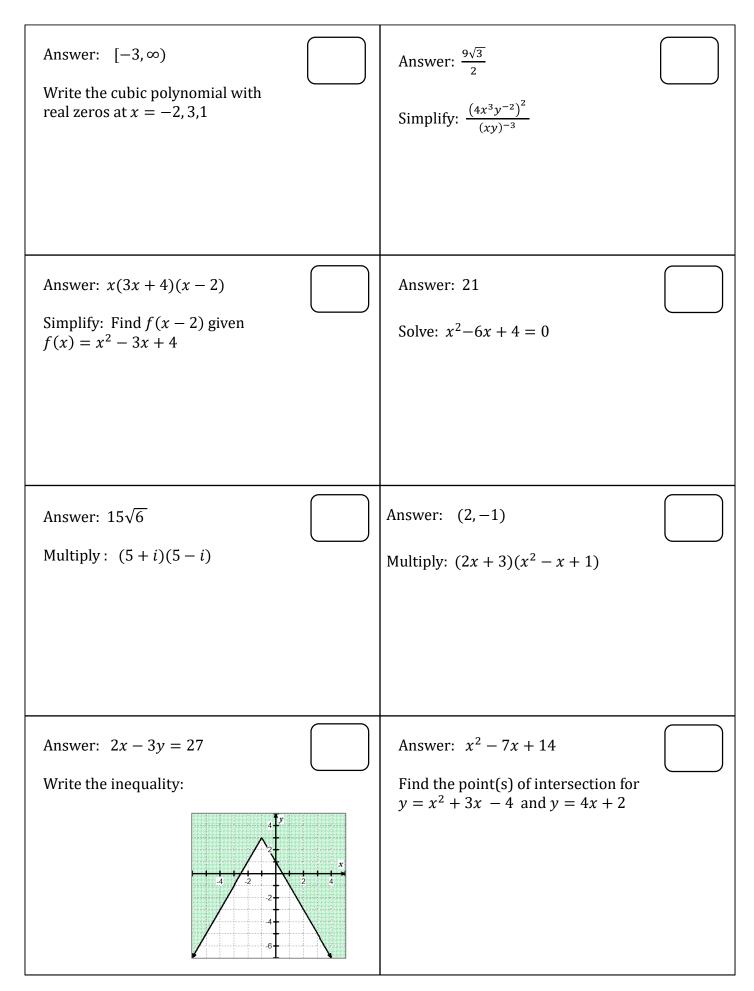
Answer: 26

Solve for *y*:



Answer: $x = 3 \pm \sqrt{5}$

Solve the system: $\begin{cases} 3x - y = 7 \\ 3x - 4y = 10 \end{cases}$



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Answer: $x^3 - 2x^2 - 5x + 6$

#1

Answer: (-2, -6) (3, 14)

#9

Simplify: $\sqrt{45} \cdot \sqrt{30}$

Write the equation of the line that passes through the points (3, -7) and (-6, -13)

Answer: $\frac{x^2 + 2xy - y^2}{x^2y^2}$

#6

Answer: $2x^3 + x^2 - x + 3$

#15

Factor Completely: $3x^3 - 2x^2 - 8x$

 \boldsymbol{x}

State the domain for: $y = \sqrt{x+3} - 2$

Answer: $y \ge -2|x+1| + 3$

#11

Answer: $\frac{16x^9}{y}$

#5

Let $f(x) = x^2 - 4x$ and g(x) = 2x - 3. Find f(g(5)).

Add: $\frac{x-y}{x^2y} + \frac{x+y}{xy^2}$

Answer: $x = 3 \pm \sqrt{5}$

Answer: 26

Solve for *y*:

#3

#13

60° 9 Solve the sys

30°

y

Solve the system: $\begin{cases} 3x - y = 7 \\ 3x - 4y = 10 \end{cases}$

Write the cubic polynomial with

real zeros at x = -2, 3, 1

Simplify: $\frac{(4x^3y^{-2})^2}{(xy)^{-3}}$

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

#7

Answer: 21

Simplify: Find f(x-2) given

 $f(x) = x^2 - 3x + 4$

Solve: $x^2 - 6x + 4 = 0$

Answer: $15\sqrt{6}$

Multiply: (5 + i)(5 - i)

#2

Answer: (2,-1)

#14

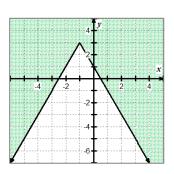
#8

Multiply: $(2x + 3)(x^2 - x + 1)$

Answer: 2x - 3y = 27

#10

Write the inequality:



Answer: $x^2 - 7x + 14$

Find the point(s) of intersection for

 $y = x^2 + 3x - 4$ and y = 4x + 2