

SpiralEd Solutions

ALGEBRA I

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SpiralEd Solutions

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Spiral 10

1 (A.12E)

The formula for area of a triangle is $A = \frac{1}{2}bh$. Using this information, what would be the formula for the base of a triangle in relation to its area and height?

F $b = \frac{h}{2A}$

G $b = \frac{1}{2}A + b$

H $b = \frac{2A}{h}$

J $b = \frac{\frac{1}{2}h}{A}$

2 (A.12B)

If the domain of the function, $f(x) = 2(x - 6)$, is $\{-3, 2, 5, 8\}$, which term is included in the range?

A -12

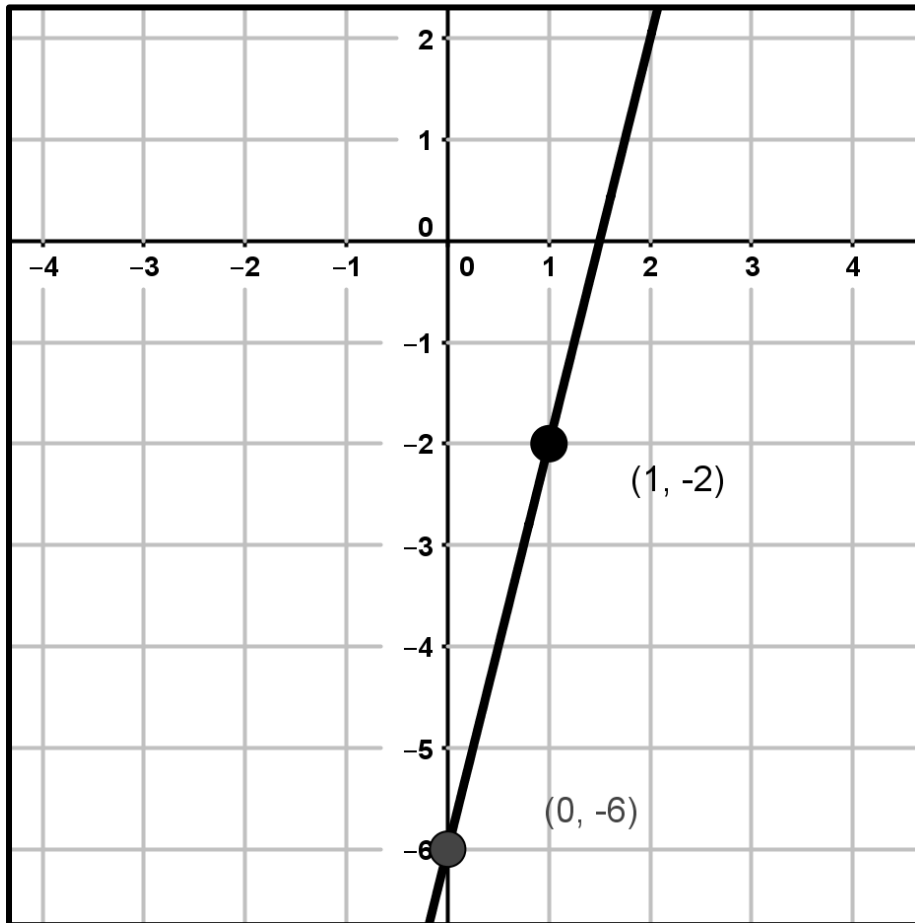
B -4

C 6

D -8

3 (A.3C)

What is the x-intercept of the line shown in the graph?



F $\frac{3}{2}$

H -6

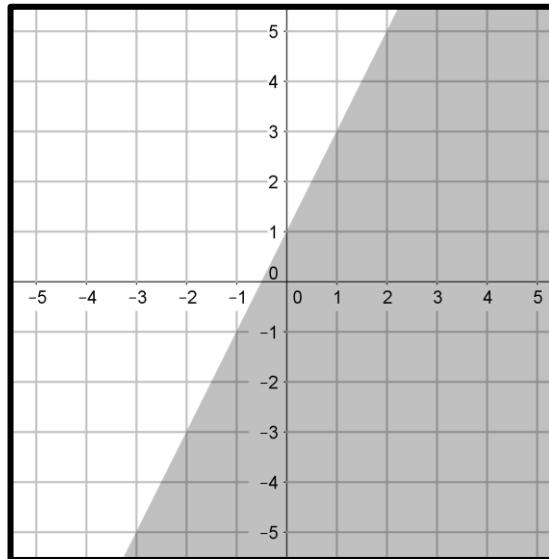
G -1.5

J (2,2)

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1 (A.3D)

Which inequality is represented in the graph below?



F $y \leq 2x - 1$

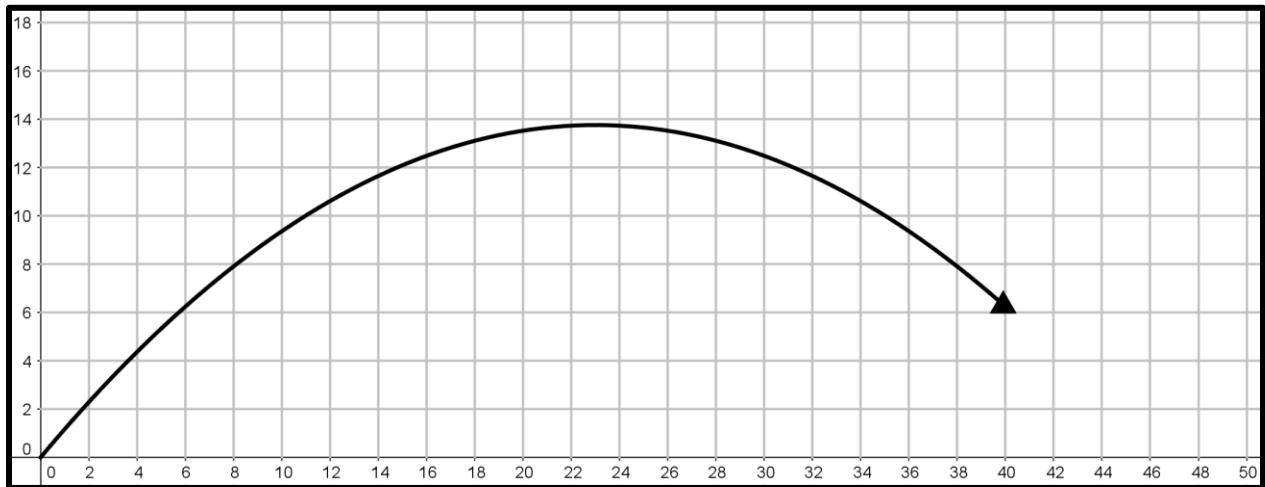
G $y < 2x + 1$

H $y > 2x - 1$

J $y \geq 2x + 1$

2 (A.8B)

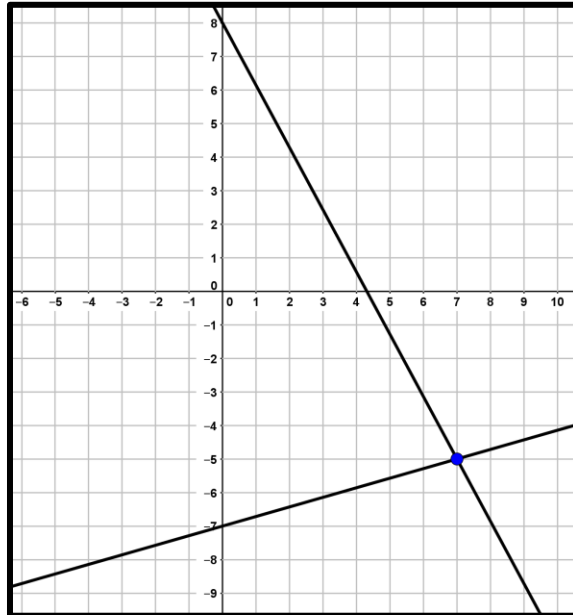
The path of a football kicked downfield can be represented by the quadratic function shown in the graph below (where x is the horizontal position in yards and y is the height in yards). Approximate how far downfield the ball will hit the ground.



- A 50 yards
- B 14 yards
- C 46 yards
- D 42 yards

3 (A.2I)

Write the system of equations represented by the graph below.



F $13x + 7y = 49$
 $2x - 7y = 56$

G $9x + 7y = 35$
 $2x - 7y = 14$

H $9x - 7y = 49$
 $2x + 7y = 63$

J $13x + 7y = 56$
 $2x - 7y = 49$

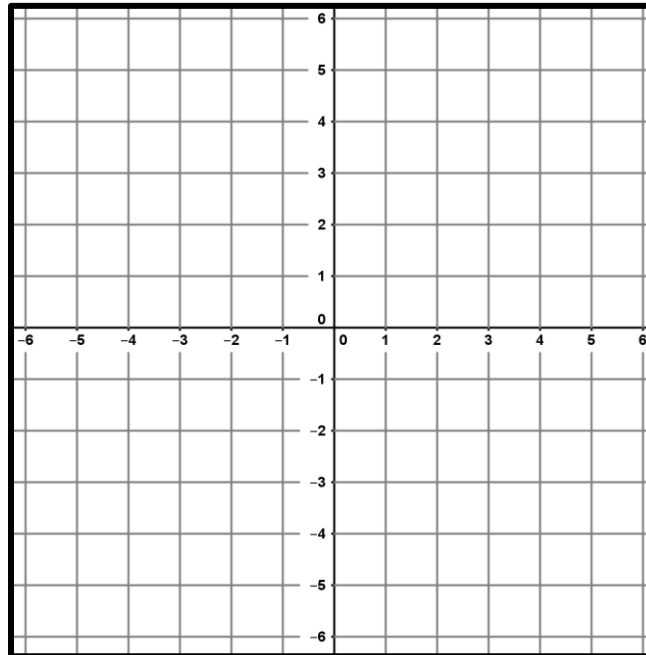
Spiral 92

1 (A.3F)

Graph the system of equations and determine its solution.

$$5x - 4y = -8$$

$$x + 4y = -16$$



F (3, 4)

G (3, -4)

H (-4, -3)

J no solution

2 (A.12B)

The domain of $f(x) = -2(4 - x)$ is $\{-4, -2, 0, 2\}$, what is the range?

A $\{-16, -10, -8, -4\}$

B $\{-16, -12, -6, -4\}$

C $\{-16, -12, -8, -4\}$

D $\{-16, -12, -8, -2\}$

3 (A.2A)

The range for the function, $f(x) = -2x + 3$, is $\{-7, -5, 1, 3, 9\}$. Which of the following is part of the domain?

F 6

G -1

H 0

J -4