## Systems of Linear Equations and Inequalities

1. Solve the system of equations below.

$$-5y + 3x = -16$$
  
 $10y + 4x = 62$ 

What is the x-value in the solution?

- A. 3
- B. 4.6
- C. 5
- D. 6.6
- 2. Solve the system of equations below.

$$x = -3y$$
$$3y + 2x = 3$$

What is the value of *y* in the solution?

- A. -3
- B. -1
- C. 1
- D. 3
- 3. Kim bought 4 shirts and 3 pairs of jeans for \$109.85. Jim bought 6 shirts and 1 pair of jeans for \$94.95.

Each shirt costs the same amount. Each pair of jeans costs the same amount.

What is the cost, in dollars, for 1 pair of jeans?

Enter your answer in the response grid.

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4. Jen is 13 years younger than Andre. The sum of their ages in years is 137.

What is Andre's age in years?

Enter your answer in the response grid.

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5. Solve the system of equations below.

$$3x - 2y = -7$$
  
 $-4x + y = 11$ 

Answer\_\_\_\_

6. A group of 2 adults and 4 children paid \$95 for admission to a water park. A different group of 3 adults and 7 children paid \$155 for admission to the same water park.

Write a system of equations that can be used to determine the admission price to the water park for an adult (A) and a child (C).

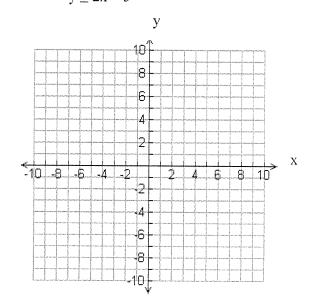
Answer			

What is the admission price, in dollars, for 1 child?

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7. Graph the system of linear inequalities below.

$$-3x + 2y > -6$$
  
 $-y \ge 2x - 5$ 



8.	Describe how to estimate the solution to a pair of equations graphed on a coordinate plane. Then, explain how to determine if there is one solution, n solution, or infinitely many solutions to the pair of equations.