

1. Solve for x.

$$-3(x - 4) = 12$$

- A $x = -1$
- B $x = 0$
- C $x = 1$
- D $x = -36$
- E None of these

2. Find the y intercept of $x - 3y = -15$

- A 15
- B 5
- C -15
- D $1/3$
- E None of these

3. Solve for y.

$$-2x - 3y + 4 = x + 16$$

- A $y = -x - 4$
- B $y = x + 4$
- C $y = -\frac{3}{4}x + 2$
- D $y = -x - 9$
- E None of these

4. Solve this system of equations

$$5x - 3y = 18$$

$$4x - 6y = 0$$

- A (3, -2)
- B (6, 4)
- C (4, 6)
- D (5, 18)
- E None of these

5. If the solution to a system of three linear inequalities is a bounded region (not open), what shape will the bounded region make?

- A Circle
- B Triangle
- C Square
- D Pentagon
- E Dodecahedron

6. What is the vertex of $y = -2x^2 - 4x + 5$?

- A (-1,7)
- B (1,-7)
- C (-1, 5)
- D (1, -5)
- E None of these