

Practice 1
Solving Equations

Level: 2

1. Solve $2x + 3y = 12$
 $4x - y = 1$

A (15/14, 23/7)

C (13/17, 2/9)

B (5/4, 2/5)

D (13/17, -2/9)

2. Solve $x + y = 10$
 $2x + y = 16$

A (6, -4)

C (-6, -4)

B (6, 4)

D (3, -4)

3. Solve.

$$3x + 4y = 10$$

$$6x + 8y = 20$$

A (0, 0)

C Infinite Sol.

B (1, 1)

D No solution

4. Solve.

$$2x - 3y = 6$$

$$4x - 6y = 12$$

A (0, 0)

C (1, 1)

B No solution

D Infinite Sol.

5. Find the solution of the following system of equations.

$$2x + 3y = 6$$

$$4x + 6y = 10$$

A (0, 0)

C Infinite Sol.

B (1, 1)

D No solution

6. Solve.

$$3^{2x+1} = 9^{x+2}$$

A 1

C No solution

B 0

D 2

7. Solve for x.

$$5^{x+1} = 2 \cdot 25^{x-1}$$

A 3.89

C 2.21

B 2.57

D 3.67

8. Solve for x, where x is a real number.

$$\sqrt{3x+5} = \sqrt{2x+11}$$

A 6

C 4

B 2

D 8