

1. Solve the system of equations using substitution.

$$y = 3x + 5$$

$$2x - y = -7$$

$$(2, 11)$$

2. Solve the system of equations using elimination.

$$4y - 7x = -1$$

$$2y + 3x = -33$$

$$(-5, -9)$$

3. Solve the system of equations using Cramer's Rule.

$$4x + 3y = 23$$

$$-3x + y = -14$$

$$(5, 1)$$

4. Solve the system of equations.

$$2c - 6h = 2$$

$$3c + 2h = -8$$

$$(-2, -1)$$

5. Determine the maximum and minimum values for $f(x, y) = 3x - 2y$ using the given system of inequalities.

Intersections: $(3, 1); (6, 3); (5, 0)$

Maximum: $(5, 0)$ Value = 15

Minimum: $(3, 1)$ Value = 7