

1. Solve the system of equations using substitution.

$$y = 3x + 5$$

$$2x - y = -7$$

2. Solve the system of equations using elimination.

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

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

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

$$4x + 3y = 23$$

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

4. Solve the system of equations.

$$2c - 6h = 2$$

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

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

$$2y + x \geq 5$$

$$2x - 3y \geq 3$$

$$-3x + y \geq -15$$