



ATTENTION: You must complete any 8 of these. Yes that means you may leave 4 unfinished.

1) Solve the system of equations algebraically using substitution.

$$y = x - 7$$
$$2x + y = 8$$

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2) Solve the system of equations algebraically using substitution.

$$y = 3x - 6$$
$$-3x + y = -6$$

3) Solve the system of equations algebraically using substitution.

$$y = 2x + 7$$
$$y = 5x + 4$$

4) Solve the system of equations algebraically using elimination.

$$3x - 2y = 0$$
$$x + y = -5$$

5) Solve the system of equations algebraically using elimination.

$$2x + 4y = -6$$
$$x - 3y = 7$$

6) Solve the system of equations algebraically using elimination.

$$2x + 5y = -6$$
$$4x + y = -12$$

7) Solve the system of equations algebraically. Show all work.

$$x + 2y = 7$$

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

8) Solve the system of equations algebraically. Show all work.

$$3x + y = 20$$

$$x + y = 12$$

9) Solve the system of equations algebraically. Show all work.

$$5x + 7y = 77$$

$$5x + 3y = 53$$

10) Solve the system of equations algebraically. Show all work.

$$2x + 5y = -1$$

$$x + 2y = 0$$

11) Solve the system of equations algebraically. Show all work.

$$3x + 6y = 6$$

$$2x - 3y = 4$$

12) Solve the system of equations algebraically. Show all work.

$$2x + y = 3$$

$$-2x + y = 1$$