Solve the system for each variable:

(1)

$$2x + 6y = 22$$
$$-2x + y = -8$$

(2)

$$-9x + 4y = 72$$
$$-72x + 6y = 342$$

(3)

$$-6x + 4y = -30$$
$$5x + 9y = -12$$

(4)

$$-8x - 8y = 56$$
$$-5x - 6y = 39$$

(5)

$$-9x - 4y = 8$$
$$-90x - 5y = 325$$

(6)

$$-6x - 4y = 78$$
$$7x - 9y = 32$$

(7)

$$-6x + 5y = 4$$
$$6x + 2y = -74$$

(8)

$$-7x + 8y = -36$$
$$9x + 9y = 27$$

(9)

$$8x + 4y = 24$$
$$-8x + 10y = 60$$

(10)

$$6x - 10y = -40$$
$$-6x - 2y = 28$$

(11)

$$-7x - 2y = -12$$
$$70x + y = 272$$

(12)

$$-10x - 7y = -35$$
$$-60x - 2y = -10$$

(13)

$$-10x + 8y = -122$$
$$-9x - 8y = 27$$

(14)

$$2x - 5y = -13$$
$$8x + 3y = -29$$

(15)

$$6x - 3y = 78$$
$$-6x - 2y = -38$$

Version 1 Answer Key!

(1) $x = 5, y = 2$
(2) $x = -4, y = 9$
(3) x=3, y=-3
(4) x=-3, y=-4
(5) $x = -4, y = 7$
(6) x=-7, y=-9
(7) $x = -9, y = -10$
(8) x=4, y=-1
(9) $x = 0, y = 6$
(10) $x = -5, y = 1$
(11) $x = 4, y = -8$
(12) $x = 0, y = 5$
(13) x=5, y=-9
(14) $x = -4, y = 1$
(15) $x = 9, y = -8$