

## Solutions – Simultaneous Equations (A)

$$2x - 3y = -9 \text{ and } 6x - 2y = -6$$

$$x = 0, y = 3$$

$$7x - 6y = -71 \text{ and } -4x - 4y = -4$$

$$x = -5, y = 6$$

$$8x + 6y = 18 \text{ and } -5x - 3y = -6$$

$$x = -3, y = 7$$

$$-7x + 7y = 35 \text{ and } 4x - 5y = -23$$

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

$$-2x - 7y = -83 \text{ and } 6x + 5y = 105$$

$$x = 10, y = 9$$

$$8x + 3y = 70 \text{ and } 8x - 8y = 48$$

$$x = 8, y = 2$$

## Solutions – Simultaneous Equations (B)

$$x - 7y = 40 \text{ and } x + 8y = -35$$

$$x = 5, y = -5$$

$$-2x - 8y = -60 \text{ and } 7x + 8y = 110$$

$$x = 10, y = 5$$

$$x + 8y = -11 \text{ and } -6x - 2y = 20$$

$$x = -3, y = -1$$

$$-7x + 6y = 54 \text{ and } 5x + 4y = 36$$

$$x = 0, y = 9$$

$$x - 8y = -11 \text{ and } x + 1y = -2$$

$$x = -3, y = 1$$

$$6x + 2y = 42 \text{ and } -2x - 2y = -10$$

$$x = 8, y = -3$$

## Solutions – Simultaneous Equations (C)

$$-7x - 2y = 34 \text{ and } x + 4y = -16$$

$$x = -4, y = -3$$

$$-3x - 7y = -50 \text{ and } -x - 3y = -22$$

$$x = -2, y = 8$$

$$-4x + 3y = 38 \text{ and } -5x - 6y = -50$$

$$x = -2, y = 10$$

$$-6x - 4y = -16 \text{ and } -7x + 1y = 4$$

$$x = 0, y = 4$$

$$5x - 7y = -12 \text{ and } 6x - 1y = 30$$

$$x = 6, y = 6$$

$$8x - 4y = 92 \text{ and } -2x - 7y = 17$$

$$x = 9, y = -5$$

## Solutions – Simultaneous Equations (D)

$$4x - 4y = 28 \text{ and } -x + 7y = 5$$

$$x = 9, y = 2$$

$$x - 7y = -63 \text{ and } x + 3y = 37$$

$$x = 7, y = 10$$

$$-5x + 6y = 80 \text{ and } x - 8y = -84$$

$$x = -4, y = 10$$

$$-6x + 5y = -13 \text{ and } 4x - 7y = -17$$

$$x = 8, y = 7$$

$$6x - 4y = -8 \text{ and } x + 4y = -20$$

$$x = -4, y = -4$$

$$5x - 3y = -15 \text{ and } -2x - 6y = -30$$

$$x = 0, y = 5$$

## Solutions – Simultaneous Equations (E)

$$-2x - 1y = 9 \text{ and } -5x + 4y = -10$$

$$x = -2, y = -5$$

$$-x + 7y = 52 \text{ and } -5x - 7y = -76$$

$$x = 4, y = 8$$

$$3x - 4y = -15 \text{ and } -8x + 8y = 24$$

$$x = 3, y = 6$$

$$-4x + 3y = 34 \text{ and } -3x + 5y = 53$$

$$x = -1, y = 10$$

$$5x - 8y = -15 \text{ and } 8x - 6y = -24$$

$$x = -3, y = 0$$

$$7x + 4y = -10 \text{ and } 8x + 8y = -8$$

$$x = -2, y = 1$$

## Solutions – Simultaneous Equations (F)

$$-5x + 3y = 18 \text{ and } 7x - 4y = -25$$

$$x = -3, y = 1$$

$$-2x - 2y = 12 \text{ and } 6x + 1y = -16$$

$$x = -2, y = -4$$

$$4x + 5y = 45 \text{ and } 8x + 8y = 88$$

$$x = 10, y = 1$$

$$5x - 3y = 7 \text{ and } x + 1y = 11$$

$$x = 5, y = 6$$

$$-7x + 3y = -24 \text{ and } 6x - 5y = 23$$

$$x = 3, y = -1$$

$$-2x + 6y = 2 \text{ and } 5x + 7y = -27$$

$$x = -4, y = -1$$

## Solutions – Simultaneous Equations (G)

$$-2x + 7y = 19 \text{ and } -2x + 3y = -1$$

$$x = 8, y = 5$$

$$7x - 3y = 1 \text{ and } -x - 4y = 22$$

$$x = -2, y = -5$$

$$5x + 4y = 78 \text{ and } 2x - 7y = -29$$

$$x = 10, y = 7$$

$$-6x + 1y = -40 \text{ and } -2x - 4y = -48$$

$$x = 8, y = 8$$

$$-3x + 4y = 13 \text{ and } -3x - 3y = 6$$

$$x = -3, y = 1$$

$$-5x + 7y = -75 \text{ and } -7x - 7y = -21$$

$$x = 8, y = -5$$

## Solutions – Simultaneous Equations (H)

$$2x - 6y = -48 \text{ and } 2x - 3y = -18$$

$$x = 6, y = 10$$

$$3x + 3y = 24 \text{ and } -4x + 2y = 28$$

$$x = -2, y = 10$$

$$x + 3y = 33 \text{ and } 7x + 7y = 119$$

$$x = 9, y = 8$$

$$2x + 2y = 6 \text{ and } -5x - 5y = -15$$

$$x = 6, y = -3$$

$$7x - 3y = -46 \text{ and } -x - 5y = -26$$

$$x = -4, y = 6$$

$$x + 1y = -2 \text{ and } 7x + 6y = -11$$

$$x = 1, y = -3$$

## Solutions – Simultaneous Equations (I)

$$-3x + 2y = -29 \text{ and } -x + 6y = -15$$

$$x = 9, y = -1$$

$$4x - 4y = 48 \text{ and } 2x - 7y = 49$$

$$x = 7, y = -5$$

$$7x - 8y = 64 \text{ and } 4x - 3y = 35$$

$$x = 8, y = -1$$

$$8x + 5y = 99 \text{ and } 3x + 2y = 38$$

$$x = 8, y = 7$$

$$-8x + 3y = 33 \text{ and } -6x - 1y = 15$$

$$x = -3, y = 3$$

$$-3x + 1y = 9 \text{ and } -2x + 8y = 50$$

$$x = -1, y = 6$$

## Solutions – Simultaneous Equations (J)

$$4x - 1y = -25 \text{ and } -6x + 7y = 65$$

$$x = -5, y = 5$$

$$7x + 3y = -29 \text{ and } 7x - 2y = -4$$

$$x = -2, y = -5$$

$$-3x - 6y = -21 \text{ and } -3x - 5y = -17$$

$$x = -1, y = 4$$

$$3x + 7y = 72 \text{ and } -7x - 4y = -94$$

$$x = 10, y = 6$$

$$7x + 7y = 105 \text{ and } -5x + 5y = 25$$

$$x = 5, y = 10$$

$$-4x + 8y = -12 \text{ and } -3x - 4y = 1$$

$$x = 1, y = -1$$