

## Solutions – Quadratic Simultaneous Equations (A)

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

$(-1, 1)$  and  $(3, 21)$

$$x + y = -2 \text{ and } y = 2x^2 - 3x - 2$$

$(0, -2)$  and  $(1, -3)$

$$2x + y = 2 \text{ and } y = 2x^2 - 4x - 2$$

$(-1, 4)$  and  $(2, -2)$

$$2x - y = 0 \text{ and } y = x^2 - 3x$$

$(0, 0)$  and  $(5, 10)$

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

$(-3, 5)$  and  $(0, -1)$

$$4x + y = 2 \text{ and } y = 3x^2 + 2x + 2$$

$(-2, 10)$  and  $(0, 2)$

## Solutions – Quadratic Simultaneous Equations (B)

$$14x + y = -6 \text{ and } y = 2x^2 - 2x + 4$$

$(-5, 64)$  and  $(-1, 8)$

$$4x + y = -9 \text{ and } y = -x^2 - 4$$

$(-1, -5)$  and  $(5, -29)$

$$7x + y = -3 \text{ and } y = x^2 - x + 5$$

$(-4, 25)$  and  $(-2, 11)$

$$6x + y = 2 \text{ and } y = -2x^2 - 4x + 2$$

$(0, 2)$  and  $(1, -4)$

$$8x + y = -15 \text{ and } y = 2x^2 + 4x - 5$$

$(-5, 25)$  and  $(-1, -7)$

$$12x + y = -24 \text{ and } y = 3x^2 + 3x - 6$$

$(-3, 12)$  and  $(-2, 0)$

## Solutions – Quadratic Simultaneous Equations (C)

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

(0, 3) and (5, 48)

$$+ y = 4 \text{ and } y = 2x^2 - 2x + 4$$

(0, 4) and (1, 4)

$$x + y = 6 \text{ and } y = -x^2 + 4x + 2$$

(1, 5) and (4, 2)

$$6x - y = -5 \text{ and } y = 3x^2 + 3x + 5$$

(0, 5) and (1, 11)

$$4x + y = -20 \text{ and } y = -2x^2 - 4x - 2$$

(-3, -8) and (3, -32)

$$8x + y = 2 \text{ and } y = -x^2 - 5$$

(1, -6) and (7, -54)

## Solutions – Quadratic Simultaneous Equations (D)

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

$(-5, -41)$  and  $(-1, -1)$

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

$(-1, 0)$  and  $(4, -5)$

$$x - y = 1 \text{ and } y = 2x^2 - x - 1$$

$(0, -1)$  and  $(1, 0)$

$$8x - y = -18 \text{ and } y = 2x^2 + 4x + 2$$

$(-2, 2)$  and  $(4, 50)$

$$7x + y = 20 \text{ and } y = -x^2 + 4x - 4$$

$(3, -1)$  and  $(8, -36)$

$$30x - y = 65 \text{ and } y = 3x^2 - 2$$

$(3, 25)$  and  $(7, 145)$

## Solutions – Quadratic Simultaneous Equations (E)

$$11x - y = -5 \text{ and } y = -2x^2 + 3x - 1$$

$(-3, -28)$  and  $(-1, -6)$

$$x + y = 1 \text{ and } y = x^2 + 4x + 5$$

$(-4, 5)$  and  $(-1, 2)$

$$5x - y = -5 \text{ and } y = -x^2 + 2x + 3$$

$(-2, -5)$  and  $(-1, 0)$

$$7x - y = 6 \text{ and } y = 2x^2 - x$$

$(1, 1)$  and  $(3, 15)$

$$22x + y = 57 \text{ and } y = -2x^2 + 2x + 3$$

$(3, -9)$  and  $(9, -141)$

$$11x + y = -2 \text{ and } y = 2x^2 - 3x + 4$$

$(-3, 31)$  and  $(-1, 9)$

## Solutions – Quadratic Simultaneous Equations (F)

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

(1, -3) and (7, -45)

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

(0, 1) and (4, -27)

$$x + y = 23 \text{ and } y = 3x^2 + 2x + 5$$

(-3, 26) and (2, 21)

$$2x - y = -5 \text{ and } y = -x^2 - 3x + 5$$

(-5, -5) and (0, 5)

$$x - y = -1 \text{ and } y = -x^2 + 4x - 1$$

(1, 2) and (2, 3)

$$x + y = 0 \text{ and } y = 3x^2 + 2x$$

(-1, 1) and (0, 0)

## Solutions – Quadratic Simultaneous Equations (G)

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

(1, 2) and (6, 42)

$$4x - y = -7 \text{ and } y = 3x^2 + x + 1$$

(-1, 3) and (2, 15)

$$17x + y = -23 \text{ and } y = 2x^2 - 3x + 1$$

(-4, 45) and (-3, 28)

$$2x - y = 4 \text{ and } y = 2x^2 + 2x - 6$$

(-1, -6) and (1, -2)

$$2x - y = -4 \text{ and } y = 2x^2 + 4$$

(0, 4) and (1, 6)

$$12x - y = -19 \text{ and } y = -x^2 + 3x - 1$$

(-5, -41) and (-4, -29)

## Solutions – Quadratic Simultaneous Equations (H)

$$2x + y = 1 \text{ and } y = -x^2 - 4x + 4$$

$(-3, 7)$  and  $(1, -1)$

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

$(2, 10)$  and  $(4, 22)$

$$x - y = 0 \text{ and } y = 3x^2 + 4x - 6$$

$(-2, -2)$  and  $(1, 1)$

$$33x - y = 76 \text{ and } y = 3x^2 - 3x + 5$$

$(3, 23)$  and  $(9, 221)$

$$8x - y = 15 \text{ and } y = x^2 - x + 3$$

$(3, 9)$  and  $(6, 33)$

$$2x + y = 3 \text{ and } y = 3x^2 + 4x + 3$$

$(-2, 7)$  and  $(0, 3)$

## Solutions – Quadratic Simultaneous Equations (I)

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

$(-3, 29)$  and  $(0, 2)$

$$2x - y = -3 \text{ and } y = -x^2 + 3$$

$(-2, -1)$  and  $(0, 3)$

$$3x - y = 13 \text{ and } y = x^2 - 4x - 3$$

$(2, -7)$  and  $(5, 2)$

$$30x - y = 59 \text{ and } y = 3x^2 + 3x - 5$$

$(3, 31)$  and  $(6, 121)$

$$4x + y = 22 \text{ and } y = 2x^2 - 4x + 4$$

$(-3, 34)$  and  $(3, 10)$

$$x + y = -1 \text{ and } y = -x^2 + 4x - 1$$

$(0, -1)$  and  $(5, -6)$

## Solutions – Quadratic Simultaneous Equations (J)

$$8x + y = 12 \text{ and } y = 3x^2 + x$$

$(-4, 44)$  and  $(1, 4)$

$$x - y = 1 \text{ and } y = -x^2 + 4x + 3$$

$(-1, -2)$  and  $(4, 3)$

$$+ y = -2 \text{ and } y = 3x^2 + 3x - 2$$

$(-1, -2)$  and  $(0, -2)$

$$7x - y = 12 \text{ and } y = x^2 - x + 3$$

$(3, 9)$  and  $(5, 23)$

$$17x + y = -33 \text{ and } y = 2x^2 - x - 3$$

$(-5, 52)$  and  $(-3, 18)$

$$+ y = 14 \text{ and } y = 2x^2 + 6$$

$(-2, 14)$  and  $(2, 14)$