

5.6.3 Solutions (5.5 Homework)

GCSE Mathematics Simultaneous Equations III

(i) $x^2 + 3x - 10 = 0$
 $(x + 5)(x - 2) = 0$
 Points : (- 5, 25) or (2, 4)

(ii) $x^2 + 7x - 8 = 0$
 $(x + 8)(x - 1) = 0$
 Points : (- 8, 64) or (1, 1)

(iii) $x^2 - 5x - 36 = 0$
 $(x - 9)(x + 4) = 0$
 Points : (9, 81) or (- 4, 16)

(iv) $x^2 - 17x + 70 = 0$
 $(x - 10)(x - 7) = 0$
 Points : (10, 120) or (7, 69)

(v) $x^2 - 12x + 32 = 0$
 $(x - 4)(x - 8) = 0$
 Points : (4, 9) or (8, 49)

(vi) $x^2 - 2x - 48 = 0$
 $(x - 8)(x + 6) = 0$
 Points : (8, 96) or (- 6, 12)

(vii) $x^2 - 3x + 2 = 0$
 $(x - 1)(x - 2) = 0$
 Points : (1, 2) or (2, 1)

(viii) $x^2 + 8x + 15 = 0$
 $(x + 3)(x + 5) = 0$
 Points : (- 3, 11) or (- 5, 17)