

5.5 Answers

GCSE Mathematics Simultaneous Equations III

5.6.1 Solutions (5.3 Exercise)

(i) $x^2 - 8x + 12 = 0$
 $(x - 6)(x - 2) = 0$
Points : (2, 4) or (6, 36)

(ii) $x^2 - 11x + 28 = 0$
 $(x - 4)(x - 7) = 0$
Points : (4, 16) or (7, 49)

(iii) $x^2 - 2x - 24 = 0$
 $(x - 6)(x + 4) = 0$
Points : (6, 36) or (- 4, 16)

(iv) $x^2 + 7x + 6 = 0$
 $(x + 1)(x + 6) = 0$
Points : (- 1, 11) or (- 6, 46)

(v) $x^2 - 2x - 35 = 0$
 $(x - 7)(x + 5) = 0$
Points : (7, 35) or (- 5, 11)

(vi) $x^2 + 6x - 27 = 0$
 $(x + 9)(x - 3) = 0$
Points : (- 9, 84) or (3, 12)

(vii) $x^2 - 3x - 28 = 0$
 $(x - 7)(x + 4) = 0$
Points : (7, 63) or (- 4, 8)

(viii) $x^2 - 11x + 10 = 0$
 $(x - 10)(x - 1) = 0$
Points : (10, 62) or (1, - 1)

(ix) $x^2 - x - 30 = 0$
 $(x - 6)(x + 5) = 0$
Points : (6, 44) or (- 5, 0)

(x) $x^2 - 7x + 12 = 0$
 $(x - 3)(x - 4) = 0$
Points : (3, 9) or (4, 16)

5.6.2 Solutions (5.4 Examination Question)

$$x^2 - 2x - 15 = 0$$
$$(x - 5)(x + 3) = 0$$

Points : (5, 25) or (- 3, 9)