5.5 Homework

GCSE Mathematics

Simultaneous Equations III

Question 1

Use the method of substitution to obtain a quadratic equation in only one variable. Solve your equation, and find the possible pairs of values for x and y.

(i) $y = x^2$

$y = 10 - 3x$

(ii) $y = x^2$

$y = 8 - 7x$

(iii) $y = x^2$

$y = 5x + 36$

(iv) $y = x^2 + 20$

$y = 17x - 50$

(v) $y = x^2 - 2x + 1$

$y = 10x - 31$

(vi) $y = x^2 + 4x$

$y = 6x + 48$

(vii) $y = x^2 - 4x + 5$

$y = 3 - x$

(viii) $y = x^2 + 5x + 17$

$y = 2 - 3x$