5.5 Homework

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) | $y = x^2$ | (iv) | $y = x^2 + 20$ |
|----------------|-------------|---------------|----------------|
| | y = 5x + 36 | | 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) $y = x^2 + 5x + 17$
 $y = 2 - 3x$

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