

11 Solve the simultaneous equations

$$\begin{aligned}x - y &= 5 \\2x^2 + y^2 + 2xy &= 85\end{aligned}$$

Show clear algebraic working.

(6)

[The solutions of $ax^2 + bx + c = 0$ where $a \neq 0$ are given by $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$]



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Question 11 continued

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Turn over