



Air maths tuition

Interact, engage and perform

A-Level Core Edexcel | Past Exam Question |C1 June 2011 Q4

$x + y = 2$ ①	$\therefore (3y - 5)(y + 3) = 0$
$4y^2 - x^2 = 11$ ②	$\therefore 3y - 5 = 0$ or $y + 3 = 0$
from ① $x = 2 - y$ ③	$\therefore y = \frac{5}{3}$ or $y = -3$
sub ③ into ②	Sub in ③
$\therefore 4y^2 - (2 - y)^2 = 11$	when $y = \frac{5}{3}$, $x = 2 - \frac{5}{3}$
$\therefore 4y^2 - (2 - y)(2 - y) = 11$	$= \frac{1}{3}$
$\therefore 4y^2 - (4 - 4y + y^2) = 11$	when $y = -3$, $x = 2 - (-3)$
$\therefore 4y^2 - 4 + 4y - y^2 = 11$	$= 5$
$\therefore 3y^2 + 4y - 15 = 0$	$\therefore x = \frac{1}{3}$, $y = \frac{5}{3}$ or $x = 5$, $y = -3$

7 Marks

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Exam Solutions

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