**24** (a) Express $7 - 4x - x^2$ in the form $p - (x + q)^2$ where $p$ and $q$ are constants.

.....

**(2)**

(b) Use your answer to part (a) to solve the equation $7 - 4(y + 3) - (y + 3)^2 = 0$

Give your solutions in the form $e \pm \sqrt{f}$ where $e$ and $f$ are integers.

.....

**(3)**

The curve **C** has equation $y = 3 - 5(x + 1)^2$
The point $A$ is the maximum point on **C**.

(c) Write down the coordinates of $A$.

(..... , .....)

**(1)**

**(Total for Question 24 is 6 marks)**

**TOTAL FOR PAPER IS 100 MARKS**

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