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1 $w = 5y^2 - y^3$

(a) Work out the value of w when $y = -2$

$w = \dots$

(2)



P 6 6 3 0 2 A 0 3 2 4

1 $P = m^2 - 4c$

(a) Work out the value of P when $m = -5$ and $c = 3$

$P = \dots$
(2)



P 7 2 8 2 9 A 0 3 2 8

3

$$G = c^2 - 4c$$

(b) Find the value of G when $c = -5$

$$G = \dots$$

(2)

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5 $E = n^2 + n + 5$

Ali thinks that the value of E will be a prime number for any whole number value of n .

Is Ali correct?

You must give a reason for your answer.

(Total for Question 5 is 2 marks)

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