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

(a) Work out the value of w when $y = -2$
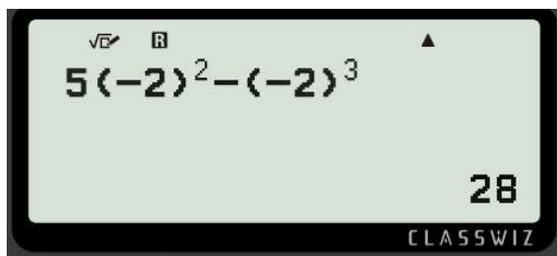
$5(-2)^2 - (-2)^3$

28

CLASSWIZ

$w =$ ....28........................

(2)

Algebra Page 1

1 $P = m^2 - 4c$

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

√☑ ℝ   ▲

$(-5)^2 - 4(3)$

                              13

CLASSWIZ

$P =$ ___13___

(2)

P 7 2 8 2 9 A 0 3 2 8

Algebra Page 2
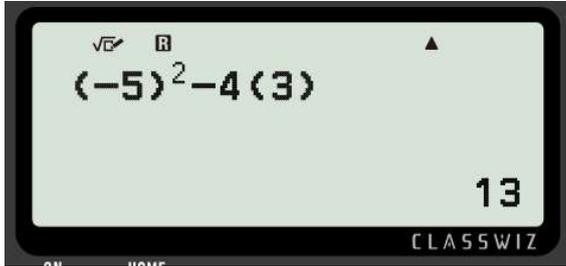
3

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

(b) Find the value of G when $c = -5$
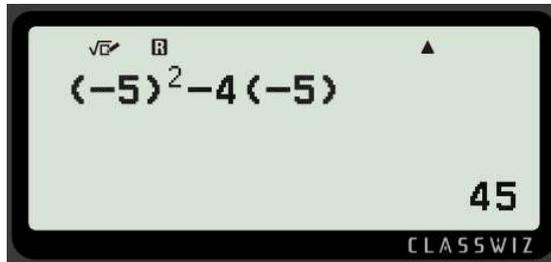
$G = $ **45**

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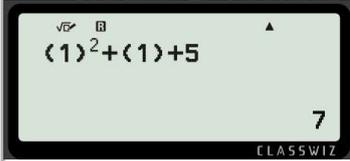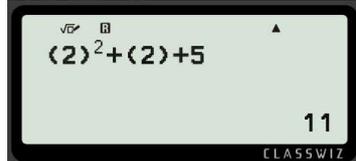
5   $E = n^2 + n + 5$

Ali thinks that the value of E will be a prime number for any whole number value of n.
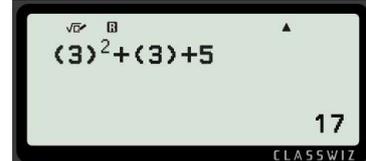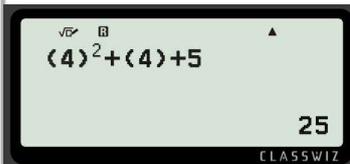
Is Ali correct?
You must give a reason for your answer.

$(1)^2 + (1) + 5$ 7

$(2)^2 + (2) + 5$ 11

$(3)^2 + (3) + 5$ 17

$(4)^2 + (4) + 5$ 25

Ali is incorrect

When $n = 4$ $E = 25$ So E is not prime

(Total for Question 5 is 2 marks)