

SECTION A**QUESTION 1**

(a) Solve for x :

(1) $(x - 1)^2 = 2(1 - x)$ (4)

(2) $5^{-x} \cdot 5^{x-2} = \frac{25^{2x}}{5}$ (4)

(b) Solve for x if $(x + 1)^2 < 9$. (4)

(c) If 2 and -4 are the roots of the equation $x^2 + bx + c = 0$, determine the values of b and c . (3)

(d) Given: $x - 2 = \frac{-4}{x - 2} - 4$

If: $y = x - 2$

(1) Show that the given equation can be expressed as $y^2 + 4y + 4 = 0$. (2)

(2) Hence or otherwise show that the equation has real and equal roots. (2)

[19]

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Albert A Gayle

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