

FAS-PASS
Maths
CSEC ADD MATHS 2021

SECTION I

Answer all questions.

ALL working must be clearly shown.

1. (a) (i) Determine the remainder when $f(x) = ax^3 + 7x^2 - 7x - 3$ is divided by $x - 1$.

SOLUTION:

Data: $f(x) = ax^3 + 7x^2 - 7x - 3$

Required to determine: The remainder when $f(x)$ is divided by $x - 1$.

Solution:

If $f(x)$ is any polynomial and $f(x)$ is divided by $(x - a)$, the remainder is $f(a)$.

Hence, the remainder when $f(x) = ax^3 + 7x^2 - 7x - 3$ is divided by $x - 1$

$$\begin{aligned} \text{is } f(1) &= a(1)^3 + 7(1)^2 - 7(1) - 3 \\ &= a + 7 - 7 - 3 \\ &= a - 3 \end{aligned}$$

- (ii) If the remainder when $f(x)$ is divided by $(x + 3)$ is equal to the remainder determined in (a) (i), find the value of a .

SOLUTION:

Data: The remainder when $f(x)$ is divided by $(x + 3)$ is equal to the remainder determined in (a) (i) above.

Required to find: The value of a .

Solution:

When $f(x)$ is divided by $x + 3$, the remainder is $f(-3)$.

$$\begin{aligned} f(-3) &= a(-3)^3 + 7(-3)^2 - 7(-3) - 3 \\ &= -27a + 63 + 21 - 3 \\ &= -27a + 81 \end{aligned}$$

$$f(-3) = f(1) \quad (\text{data})$$

$$\begin{aligned} \therefore -27a + 81 &= a - 3 \\ 81 + 3 &= a + 27a \end{aligned}$$

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