

Omureh Michael. 1912N8241073 EUCCT elect Mat 102

86

$$(i) \frac{d}{du} (A \cdot B)$$

$$A \cdot B = 18u^3 + 24u + 8u^2 - 20u - 20u + 50 + 40u^2$$

$$A \cdot B = 18u^3 - 16u + 8u^2 + 50 + 40u^2$$

$$A \cdot B = 18u^3 - 16u + 8u^2 + 50 + 40u^2$$

$$A \cdot B = 58u^3 + 8u^2 - 16u + 50$$

$$\frac{d}{du} (A \cdot B) = 174u^2 + 16u - 16$$

$$(ii) \frac{dA}{du} \quad A = (6u^2 + 8)i + (4u - 10)j + 8u^2k$$

$$\frac{dA}{du} = (12u)i + 4j + 24u^2k$$

$$\text{Answer} = (12u)i + 4j + 24u^2k$$