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MAT 102 ASSIGNMENT

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19/ENG03/005

MAT 102 Assignment

Serial No. 159

1. $\bar{A} = (6u^2+8)i + (4u-10)j + 8u^2k$

$\bar{B} = (3ui + (2u-5)j + 5k$

II. $\bar{A}\cdot\bar{B} = 3u(6u^2+8) + (4u-10)(2u-5) + 8u^3(5)$

$= 18u^3 + 24u + 8u^2 - 20u - 20u + 50 + 40u^3$

$= 58u^3 + 8u^2 + -16u + 50$

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

III $\dfrac{dA}{du} = 12ui + 4j + 24u^2k$