

USMADA PASAR LAPA

19/08/2017

MATEMATIKA

(1913) MENCANDUJAL. 0908
15/08/2018

$$\textcircled{1} \quad \underline{A} = (6u^2 + 8) \mathbf{i} + (4u - 10) \mathbf{j} + 8u^2 \mathbf{k}$$

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

$$\textcircled{1} \quad \underline{A} \cdot \underline{B} = 3u(6u^2 + 8) + (4u - 10)(2u - 5) + 8u^2(15)$$

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

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

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

$$\textcircled{1} \quad \frac{d\underline{A}}{du} = 12u \mathbf{i} + 4 \mathbf{j} + 16u \mathbf{k}$$