

## Question

If  $\vec{u}$  and  $\vec{v}$  are differentiable vector functions and f is a differentiable scalar function, which of the following formulas is meaningless?

A. 
$$f'(t)\vec{u}(t) + f(t)\vec{u}'(t)$$
  
B.  $\vec{u}'(t) \times \vec{v}(t) + \vec{u}(t) \times \vec{v}'(t)$   
C.  $\vec{u}(t) \cdot \int \vec{v}(t)dt$   
D.  $f(t) + \int (\vec{u}(t) \times \vec{v}(t))dt$   
E.  $f(t) + \int (\vec{u}(t) \cdot \vec{v}(t))dt$