## The Dot Product

## Question

Which of the following formulas involving vectors $\vec{a}, \vec{b}$, and $\vec{c}$ with $\vec{a} \neq \overrightarrow{0}$ are meaningless?
A. $\left(\frac{\vec{a} \cdot \vec{b}}{|\vec{a}|^{2}}\right) \vec{a}$
B. $\frac{\vec{a} \cdot \vec{b}}{|\vec{a}|}$
C. $(\vec{a} \cdot \vec{b}) \vec{c}-(\vec{c}+\vec{b}) \cdot \vec{a}$
D. $(\vec{b} \cdot \vec{a}) \vec{c}-(\vec{c} \cdot \vec{a}) \vec{b}$

