



GENERAL PHYSICS 1

Exercise Ch 1

Our Groups



قناة الاكاديمية



Telegram

Question one



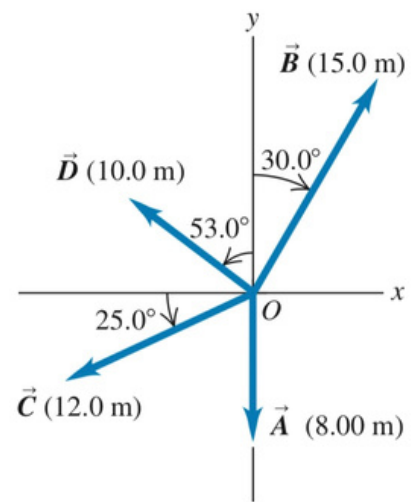
Vector $\vec{A}$ has y-component $A_y = +9.60$ m. $\vec{A}$ makes an angle of 32.0° counterclockwise from the +y-axis. (a) What is the x-component of $\vec{A}$? (b) What is the magnitude of $\vec{A}$?



Question two



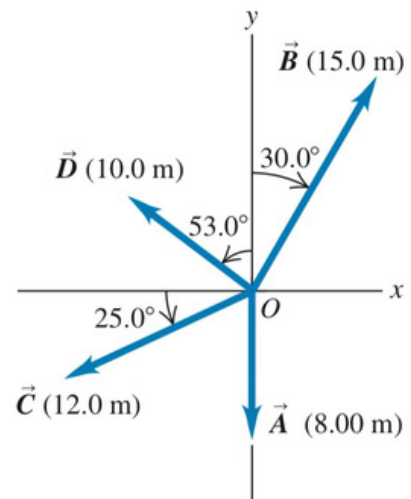
For the vectors $\vec{A}$ and $\vec{B}$ in Fig. E1.22, use the method of components to find the magnitude and direction of (a) the vector sum $\vec{A} + \vec{B}$; (b) the vector sum $\vec{B} + \vec{A}$; (c) the vector difference $\vec{A} - \vec{B}$; (d) the vector difference $\vec{B} - \vec{A}$.



Question three



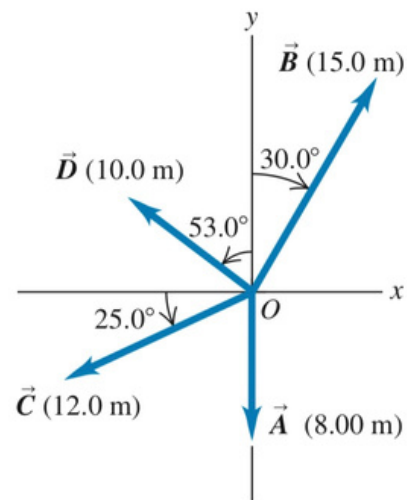
For the vectors $\vec{A}$, $\vec{B}$, and $\vec{C}$ in Fig. E1.22, find the scalar products
(a) $\vec{A} \cdot \vec{B}$; (b) $\vec{B} \cdot \vec{C}$; (c) $\vec{A} \cdot \vec{C}$.



Question four



For the two vectors $\vec{A}$ and $\vec{B}$ in Fig. E1.22, find the magnitude and direction of (a) the vector product $\vec{A} \times \vec{B}$; (b) the vector product $\vec{B} \times \vec{A}$.





ARMS
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