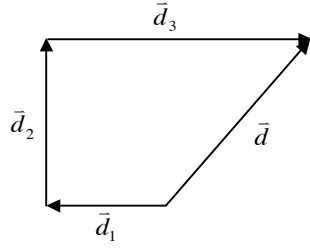


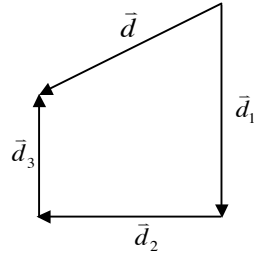
AP Physics 1

Vector Problem Answers

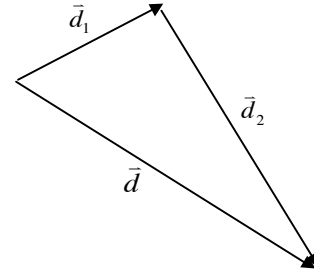
1.) $\vec{d} = 5 \text{ km } \angle 53.13^\circ$



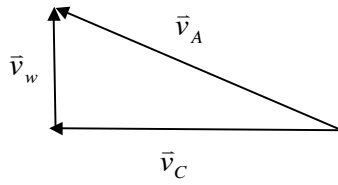
2.) $\vec{d} = 10 \text{ km } \angle 216.87^\circ$



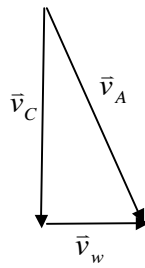
3.) $\vec{d} = 55.9 \text{ km } \angle -33.4^\circ$



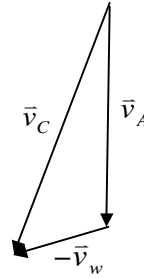
4.) $\vec{v}_A = 52.2 \frac{\text{m}}{\text{s}} \angle 163^\circ$



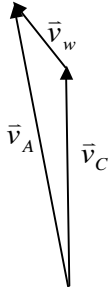
5.) $\vec{v}_A = 13.0 \frac{\text{km}}{\text{h}} \angle -67.4^\circ$



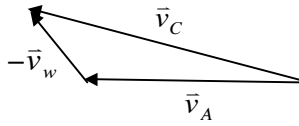
6.) $\vec{v}_C = 50.4 \frac{\text{m}}{\text{s}} \angle 257^\circ$



7.) $\vec{v}_A = 63.4 \frac{\text{m}}{\text{s}} \angle 96.7^\circ$



8.) $\vec{v}_C = 45.8 \frac{\text{m}}{\text{s}} \angle 169^\circ$



9.) $\vec{v}_A = 125.0 \frac{\text{m}}{\text{s}} \angle -40.9^\circ$

