

A) Find the unit vectors in the direction of given vectors.

1) $\vec{c} = \langle -5, -10 \rangle$

2) $\vec{s} = \langle 2, -5 \rangle$

3) $\vec{y} = \langle -2, 7 \rangle$

$\vec{v} = \langle 4, 1 \rangle$

5) $\vec{r} = \langle 6, 5 \rangle$

B) 1) Which of the

a) $\left\langle \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right\rangle$

b) $\left\langle \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right\rangle$

c) $\left\langle \frac{1}{2}, \frac{1}{2} \right\rangle$

2) Which of the following is the unit vector of $\langle 7, -4 \rangle$?

a) $\left\langle -\frac{7}{\sqrt{65}}, -\frac{4}{\sqrt{65}} \right\rangle$

b) $\left\langle -\frac{4}{\sqrt{65}}, \frac{7}{\sqrt{65}} \right\rangle$

c) $\left\langle \frac{7}{\sqrt{65}}, -\frac{4}{\sqrt{65}} \right\rangle$

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