

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

1) $\vec{b} = \langle 3, 7 \rangle$

2) $\vec{m} = \langle -7, 5 \rangle$

3) $\vec{u} = \langle 6, -10 \rangle$

$\vec{v} = \langle 4, 3 \rangle$

5) $\vec{x} = \langle 5, -8 \rangle$

B) 1) Which of the

a) $\left\langle -\frac{1}{82}, -\frac{9}{82} \right\rangle$

b) $\left\langle \frac{1}{\sqrt{82}}, \frac{9}{\sqrt{82}} \right\rangle$

c) $\left\langle -\frac{1}{\sqrt{82}}, \frac{9}{\sqrt{82}} \right\rangle$

2) Which of the following is the unit vector of $\langle -8, -3 \rangle$?

a) $\left\langle -\frac{8}{\sqrt{73}}, \frac{3}{\sqrt{73}} \right\rangle$

b) $\left\langle -\frac{8}{\sqrt{73}}, -\frac{3}{\sqrt{73}} \right\rangle$

c) $\left\langle -\frac{3}{\sqrt{73}}, -\frac{8}{\sqrt{73}} \right\rangle$

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