

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

1)  $\vec{a} = \langle 4, -5 \rangle$

2)  $\vec{h} = \langle -1, -3 \rangle$

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3)  $\vec{n} = \langle 10, 2 \rangle$

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5)  $\vec{q} = \langle -7, 1 \rangle$

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B) 1) Which of the

a)  $\left\langle \frac{1}{\sqrt{37}}, -\frac{1}{\sqrt{37}} \right\rangle$       b)  $\left\langle -\frac{6}{37}, -\frac{1}{37} \right\rangle$

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

a)  $\left\langle -\frac{1}{\sqrt{17}}, \frac{4}{\sqrt{17}} \right\rangle$       b)  $\left\langle \frac{1}{17}, \frac{4}{17} \right\rangle$       c)  $\left\langle -\frac{1}{17}, \frac{4}{17} \right\rangle$

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