# Answer on Question \#76907 - Math - Geometry <br> Question 

Find the component form of the unit vector in the direction of $u=\langle 3,4\rangle$.

## Solution

The unit vector in the direction of $u$ :

$$
\hat{u}=\frac{u}{|u|}=\frac{3 \vec{\imath}+4 \vec{\jmath}}{\sqrt{3^{2}+4^{2}}}=\frac{3}{5} \vec{\imath}+\frac{4}{5} \vec{\jmath}, \quad \hat{u}=\langle 0.6,0.8\rangle
$$

Answer: $\hat{u}=\langle 0.6,0.8\rangle$.

