

Please PRINT your name _____

No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

Quiz 2, January 25, 2021

Find the vector of length 7 that has the same direction as $\vec{v} = 12\vec{i} - 5\vec{k}$.

ANSWER: The vector $\frac{\vec{v}}{|\vec{v}|} = \frac{12\vec{i} - 5\vec{k}}{\sqrt{12^2 + 5^2}}$ has length 1 and the same direction as \vec{v} .

The vector $7\frac{\vec{v}}{|\vec{v}|} = \frac{7}{\sqrt{12^2 + 5^2}}(12\vec{i} - 5\vec{k})$ has length 7 and the same direction as \vec{v} .

Of course $\sqrt{12^2 + 5^2}$ can also be written as 13.