Please	PRINT	vour name		
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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 22, 2020

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

ANSWER: The vector $\frac{\overrightarrow{v}}{|\overrightarrow{v}|} = \frac{12\overrightarrow{i} - 5\overrightarrow{k}}{\sqrt{12^2 + 5^2}}$ has length 1 and the same direction as \overrightarrow{v} . The vector $7\frac{\overrightarrow{v}}{|\overrightarrow{v}|} = \boxed{\frac{7}{\sqrt{12^2 + 5^2}}(12\overrightarrow{i} - 5\overrightarrow{k})}$ has length 7 and the same direction as \overrightarrow{v} .

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