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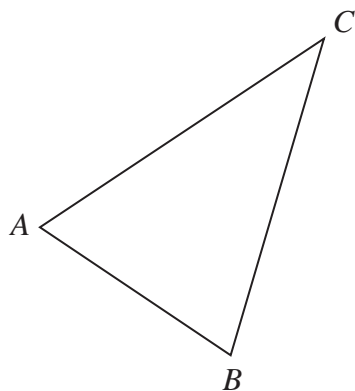


Diagram **NOT**
accurately drawn

ABC is a triangle.

$$\vec{AB} = \begin{pmatrix} 3 \\ -2 \end{pmatrix} \quad \vec{BC} = \begin{pmatrix} x \\ 5x \end{pmatrix} \text{ where } x > 0 \text{ and } |\vec{AC}| = 5$$

Find \vec{AC} as a column vector.
Show clear algebraic working.

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(Total for Question 25 is 5 marks)

