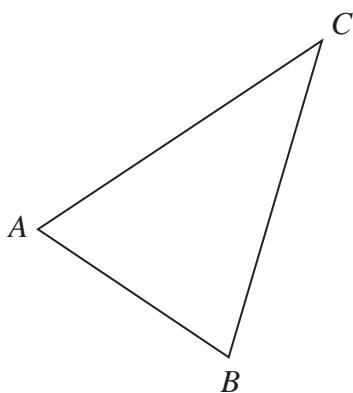


DO NOT WRITE IN THIS AREA

25

Diagram NOT
accurately drawn

ABC is a triangle.

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

Find \overrightarrow{AC} as a column vector.

Show clear algebraic working.

$$\left(\begin{array}{c} \\ \\ \end{array} \right)$$

(Total for Question 25 is 5 marks)



P 6 2 0 1 8 A 0 2 1 2 4