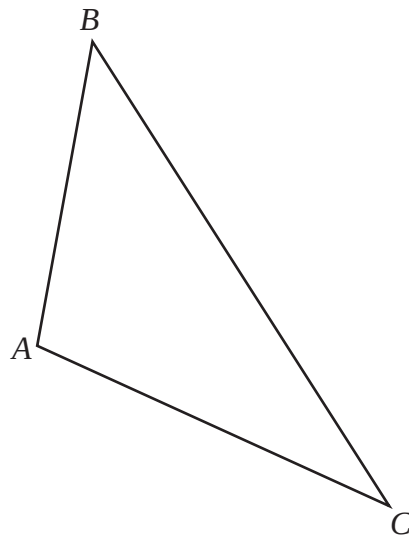


7.



Not to scale

Figure 1

**In this question you must show all stages of your working.
Solutions relying entirely on calculator technology are not acceptable.**

Figure 1 shows a sketch of triangle ABC .

Given that

- $\overrightarrow{AB} = 4\mathbf{i} - 3\mathbf{j} - \mathbf{k}$
- $\overrightarrow{AC} = 3\mathbf{i} + 5\mathbf{j} + 2\mathbf{k}$

find the size of angle BAC , giving the answer in degrees to one decimal place.