22 *ABC* is an isosceles triangle in a horizontal plane.
The point *T* is vertically above *B*.

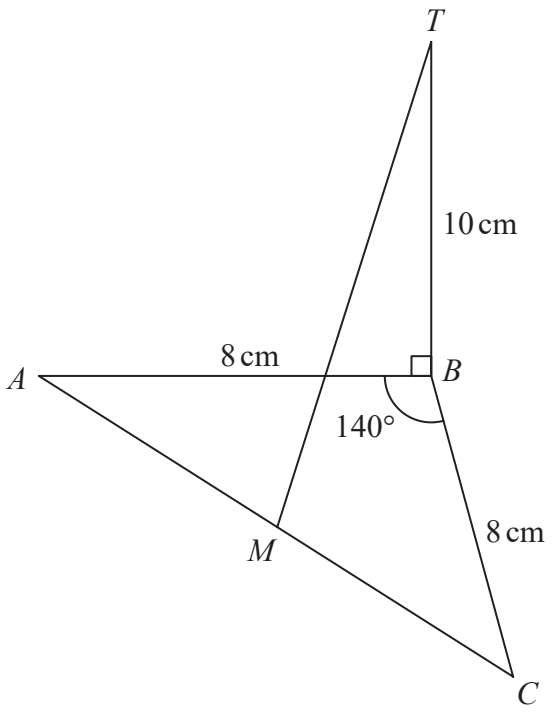


Diagram **NOT** accurately drawn

Angle *ABC* = 140°
AB = *BC* = 8 cm
TB = 10 cm
M is the midpoint of *AC*.

Calculate the size of the angle between *MT* and the horizontal plane *ABC*.
Give your answer correct to one decimal place.

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

°

.....

(Total for Question 22 is 4 marks)

TOTAL FOR PAPER IS 100 MARKS

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

BLANK PAGE

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA