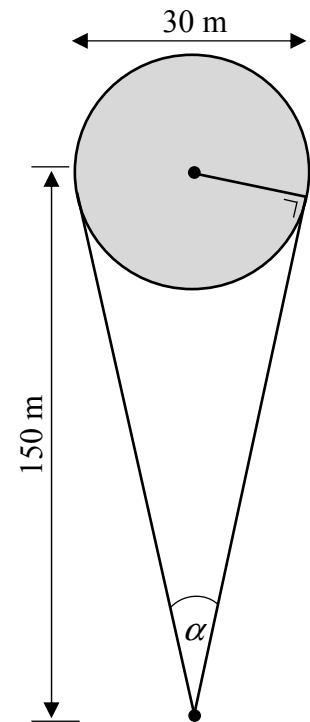


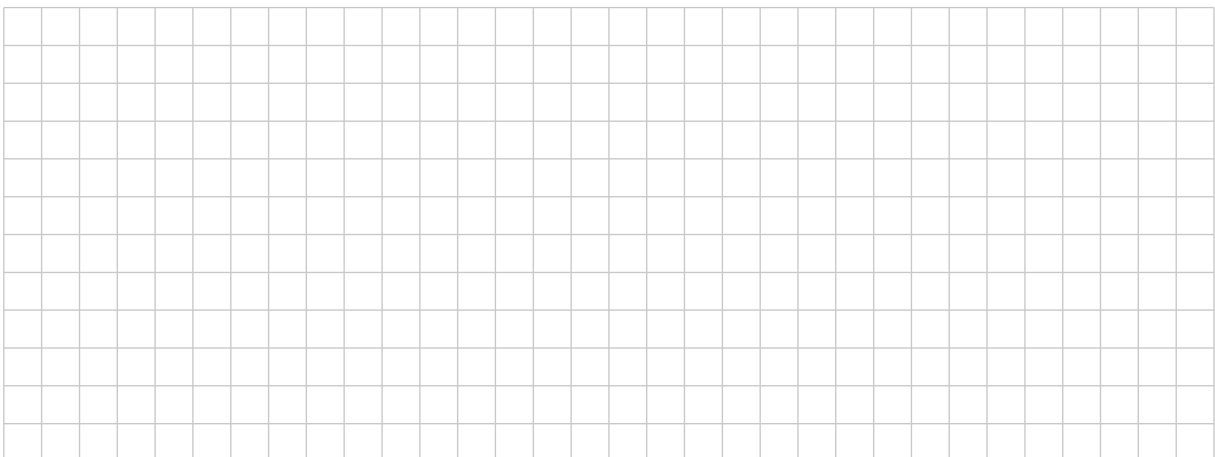
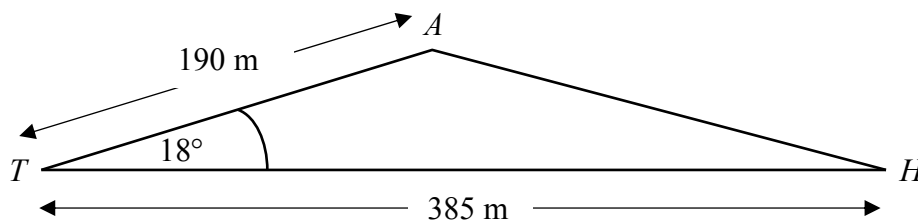
Question 9

(45 marks)

- (a) Joan is playing golf. She is 150 m from the centre of a circular green of diameter 30 m. The diagram shows the range of directions in which Joan can hit the ball so that it could land on the green. Find α , the measure of the angle of this range of directions. Give your answer, in degrees, correct to one decimal place.



- (b) At the next hole, Joan, at T , attempts to hit the ball in the direction of the hole H . Her shot is off target and the ball lands at A , a distance of 190 metres from T , where $|\angle ATH| = 18^\circ$. $|TH|$ is 385 metres. Find $|AH|$, the distance from the ball to the hole, correct to the nearest metre.



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