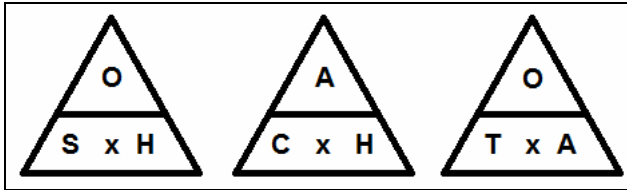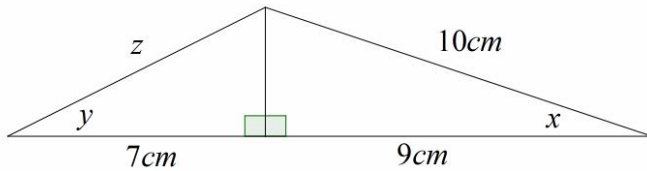**Trig Ratios – www.m4ths.com**
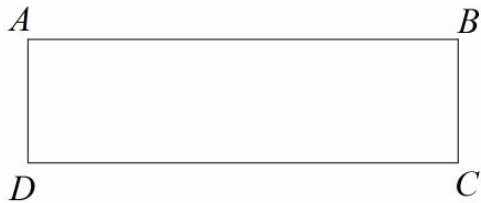(Give all answers to 1 decimal place)

(1) Find the values of x, y and z.
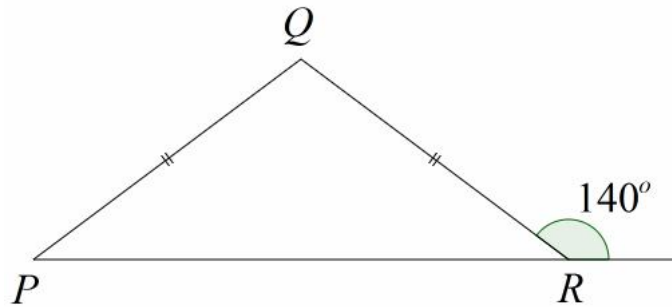

(2) The rectangle $ABCD$ is shown below.

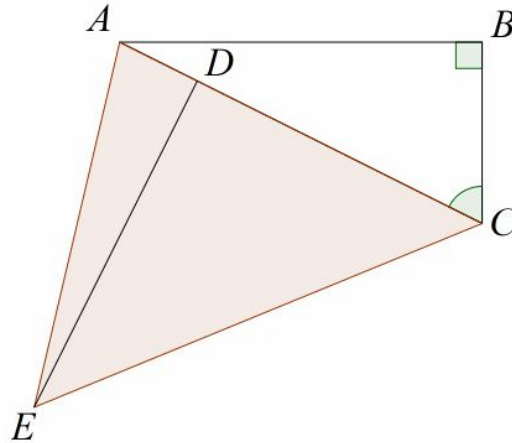Given that $BC = 4cm$ and angle $BDC = 16^o$, find the area of $ABCD$.

(3) The triangle PQR is shown below.

Given that $PQ = 8m$, find the length of PR.

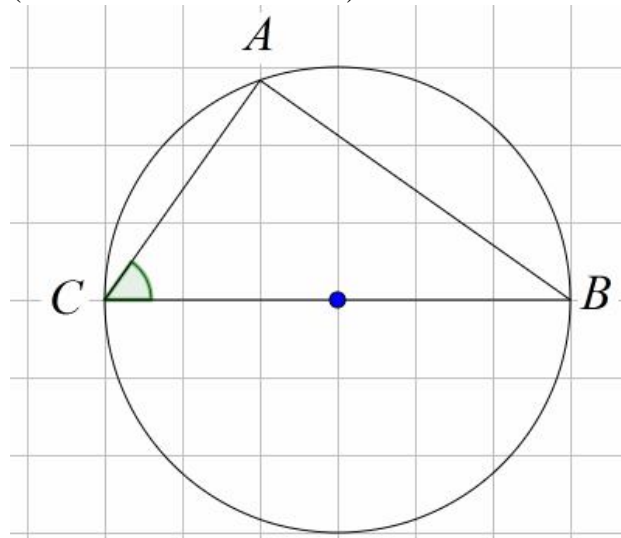(4) In the diagram below $AB = 7cm$, $DE = 8cm$ and angle $ACB = 60^o$.
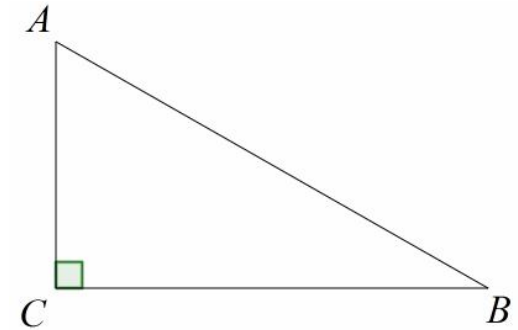Given that the lines AC and DE are perpendicular, find the area of the shaded scalene triangle below.

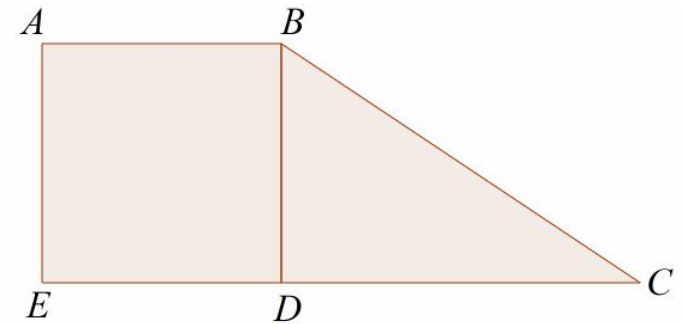(5) Given that angle $ACB = 55^o$, find the length AB. Give your answer in cm. (You must not use a ruler!)

(6) In the triangle below angle $ABC = 4p - 10$ and angle $BAC = 5p + 10$.
Given that $AB = 10cm$, find the length of AC.

(7) In the diagram below the area of the square $ABDE$ is $16m^2$.

Given that $DC = 1.5ED$, find the size of the angle DBC.

(8) Fred starts from home and walks 5km north before stopping. He then faces East and walks for 6km before stopping again.
(a) Find out how far Fred is away from his starting point after his second stop.
(b) Calculate the bearing Fred is on from his starting point after his second stop.