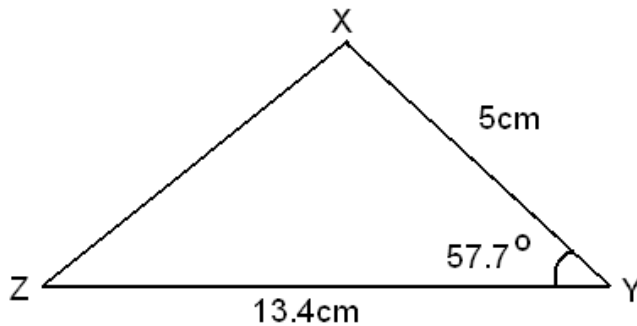


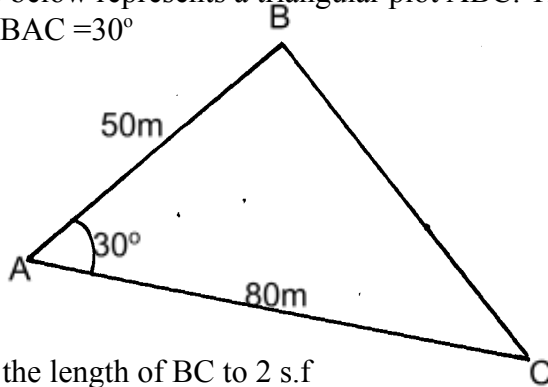
1. Area of a triangle

1. The sides of a triangle are in the ratio 3:5:6. If its perimeter is 56 cm, use the Heroes formula to find its area (4mks)
2. The figure below is a triangle XYZ. $ZY = 13.4\text{cm}$, $XY = 5\text{cm}$ and angle $xyz = 57.7^\circ$



Calculate

- a. Length XZ. (3mks)
 - b. Angle XZY. (2 mks)
 - c. If a perpendicular is dropped from point X to cut ZY at M, Find the ratio MY:ZM. (3 mks)
 - d. Find the area of triangle XYZ. (2 mks)
3. The figure below represents a triangular plot ABC. The lengths of $AB = 50\text{m}$, $AC = 80\text{m}$ and angle $BAC = 30^\circ$



- (a) Find the length of BC to 2 s.f
- (b) Find the area of the plot in hectares
- (c) The plot is fenced using 4 strands of barbed wire. The length of one roll of barbed wire is 600m and it costs shs.4000. Calculate;
 - (i) The length of fencing wire required
 - (ii) The number of complete rolls to be bought
 - (iii) The cost of the rolls