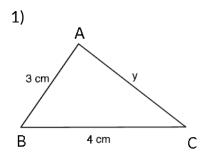
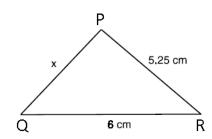
Name: _____

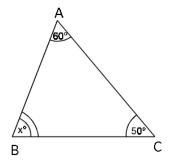
Similar Triangles

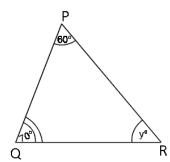
1) Find the values of x and y if \square ABC \square \square PQR





2)



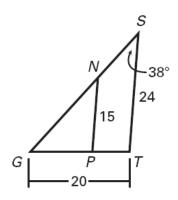


2) In which of the following cases, $\ \sqcup$'s ABC and PQR are similar

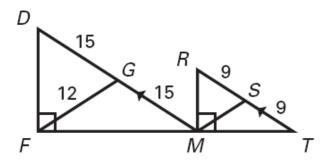
1)
$$\angle A = 40^{\circ}$$
, $\angle B = 60^{\circ}$, $\angle C = 80^{\circ}$, $\angle P = 40^{\circ}$, $\angle Q = 60^{\circ}$ and $\angle R = 80^{\circ}$

2)
$$\angle A = 50^{\circ}$$
, $\angle B = 70^{\circ}$, $\angle C = 60^{\circ}$, $\angle P = 50^{\circ}$, $\angle Q = 60^{\circ}$ and $\angle R = 70^{\circ}$

3) $\Box GST \Box \Box GNP$



- 1) Write the statement of proportionality.
- 2) Find $m \angle GNP$.
- 3) Find GP.
- 4) Find the length of \overline{MS} .



5) You are standing 15 m from building A and 50 m from building B. Building A is 90 m tall. Find the height of building B.

