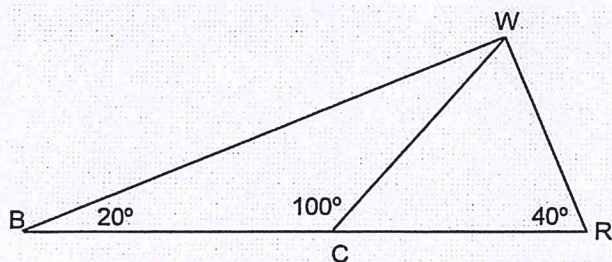


Bellwork Geometry Tuesday, March 3, 2020

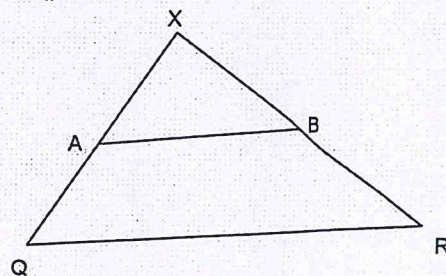
In each of the figures shown determine if each of the triangles similar? If yes, state with postulate or theorem was used and write a similarity statement.

1.

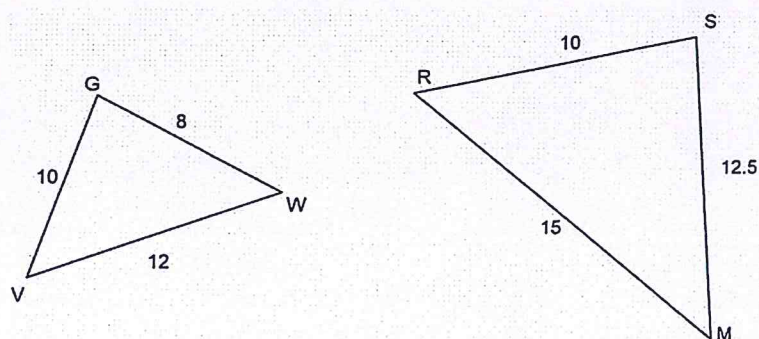


2.

Given $\overline{AB} \parallel \overline{QR}$

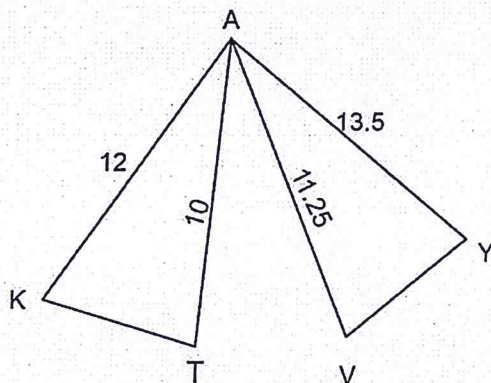


3.

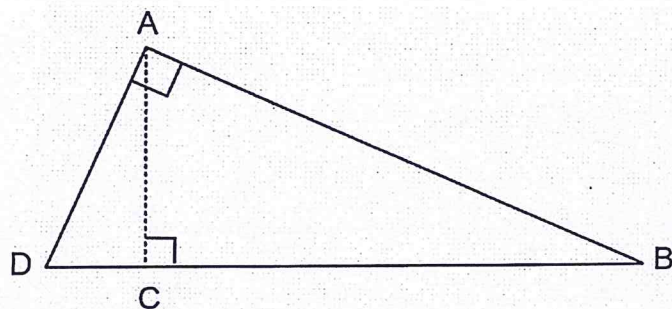


Given: $\angle KAT \cong \angle YAV$

4.



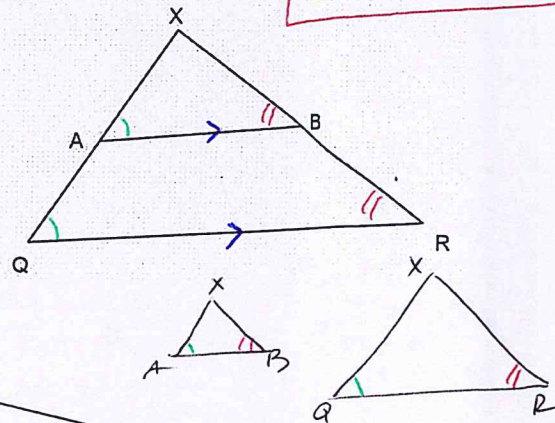
5.



In each of the figures shown determine if each of the triangles similar? If yes, state with postulate or theorem was used and write a similarity statement.

BY AA-Postulate
 $\triangle ABX \sim \triangle QRX$

Given $\overline{AB} \parallel \overline{QR}$



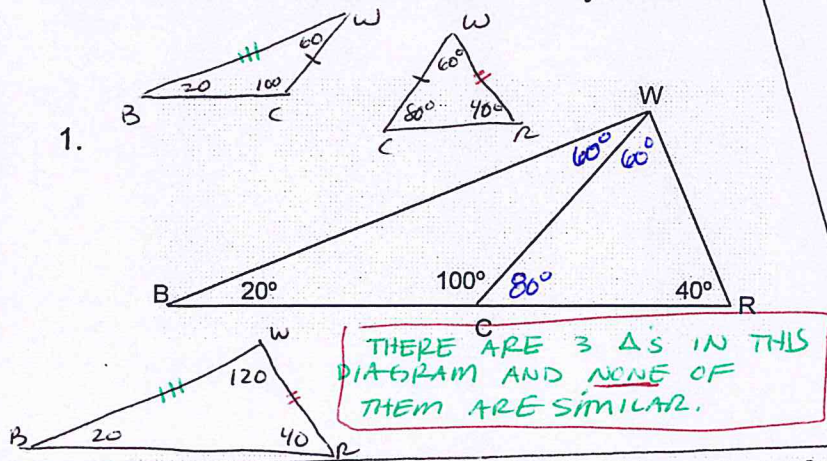
RATIOS OF CORRESPONDING SIDES:

$$\frac{BX}{QR} = \frac{10}{8} = 1.25, \quad \frac{AX}{QR} = \frac{12.5}{10} = 1.25, \quad \frac{XQ}{XR} = \frac{15}{12} = 1.25$$

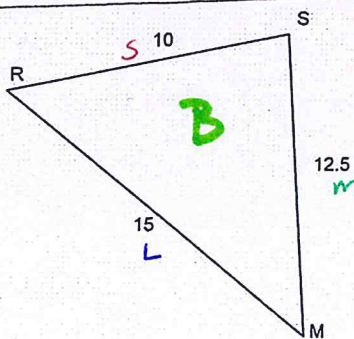
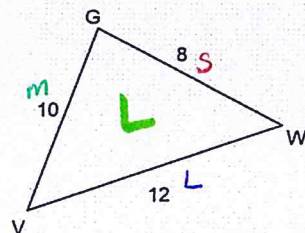
By SSS Sim. Thm.
 $\triangle GWV \sim \triangle SRM$

1.

2.



3.



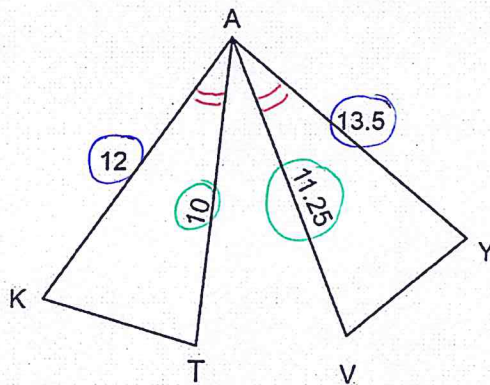
Given: $\angle KAT \cong \angle YAV$

RATIO OF CORRESPONDING SIDES

$$\frac{13.5}{12} = 1.125, \quad \frac{11.25}{10} = 1.125$$

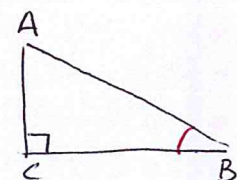
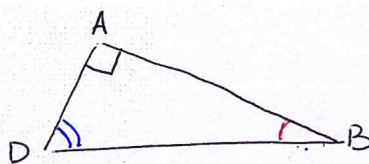
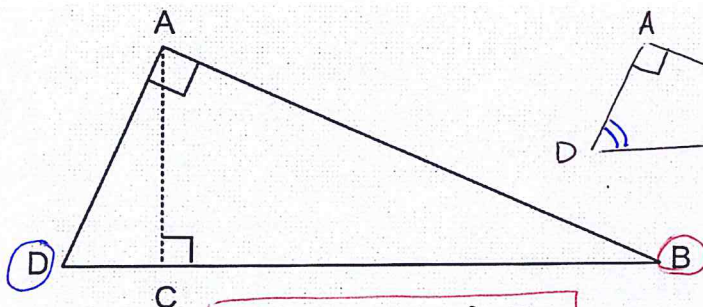
By SAS Sim. Thm.
 $\triangle KAT \sim \triangle YAV$

4.



THERE ARE 3 Δ'S IN THIS DIAGRAM:

5.



BY AA SIM. POST:

$\triangle ABD \sim \triangle CAD$
 AND
 $\triangle ABD \sim \triangle CBA$

THEREFORE

$\triangle CAD \sim \triangle CBA$
 THEY ARE BOTH
 SIMILAR TO $\triangle ABD$