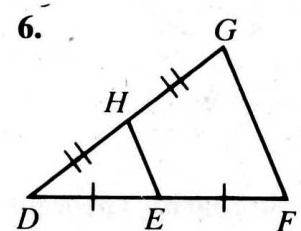
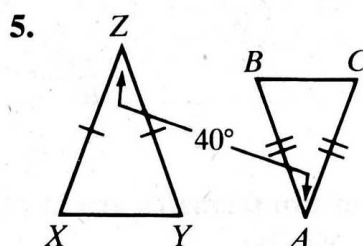
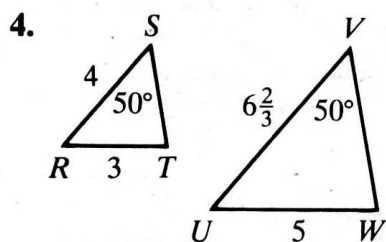
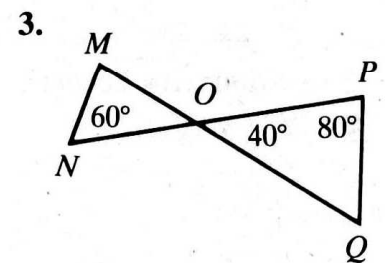
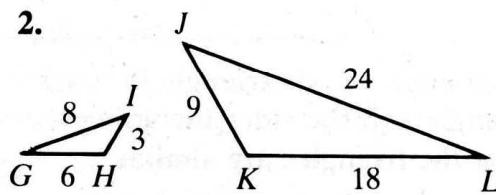
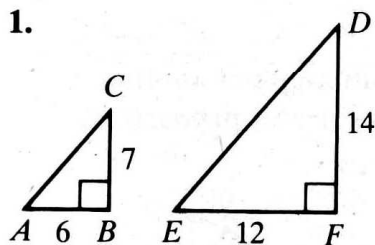


**NOTES SECTION 7.5: THEOREMS FOR SIMILAR TRIANGLES**

**SAS SIMILARITY THEOREM**

**SSS SIMILARITY THEOREM**

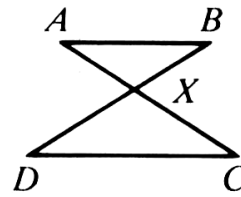
Can the two triangles shown be proved similar? If so, state the similarity and which similarity postulate or theorem you would use.



7) Given:  $\frac{AX}{XC} = \frac{BX}{XD}$

Prove:

Proof:

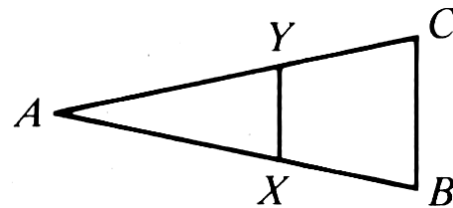


STATEMENTS	REASONS
1)	1)
2)	2)
3)	3)
4)	4)
5)	5)

8) Given:  $\frac{AX}{AB} = \frac{AY}{AC}$

Prove:

Proof:

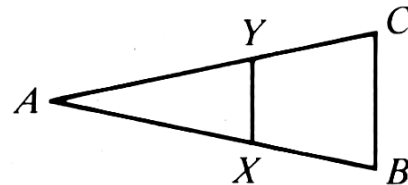


STATEMENTS	REASONS
1)	1)
2)	2)
3)	3)
4)	4)

9) Given:  $\angle AXY \cong \angle C$

Prove:

Proof:



STATEMENTS	REASONS
1)	1)
2)	2)
3)	3)
4)	4)