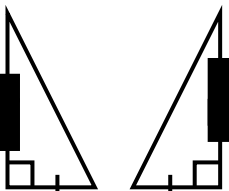
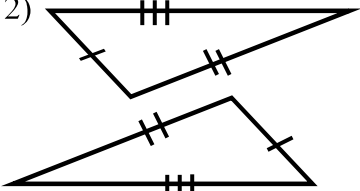
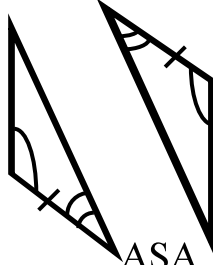


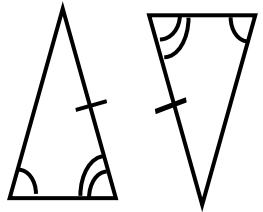
Triangle Congruence Postulates
Geometry

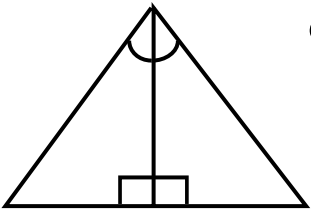
If the triangles are congruent, name the postulate(s) that prove it.

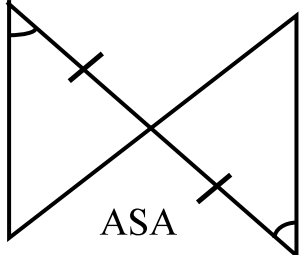
1)  SAS

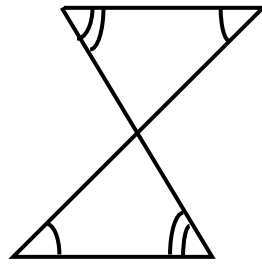
2)  SSS

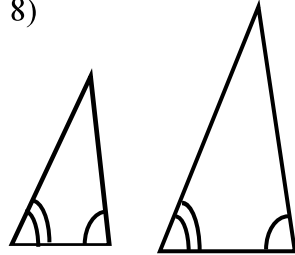
3)  ASA

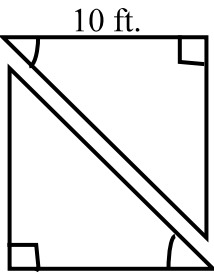
4)  AAS

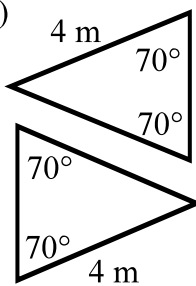
5)  ASA

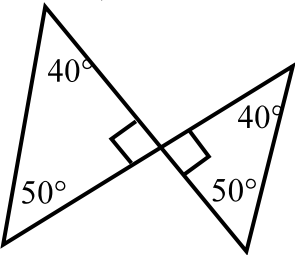
6)  ASA

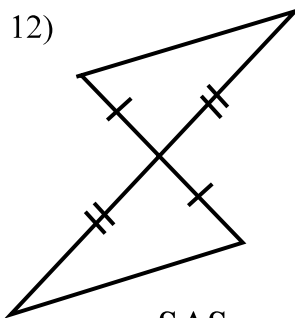
7)  No Postulate

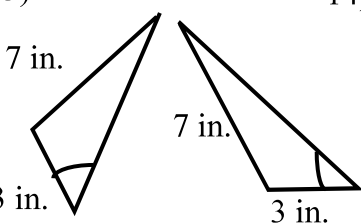
8)  No Postulate

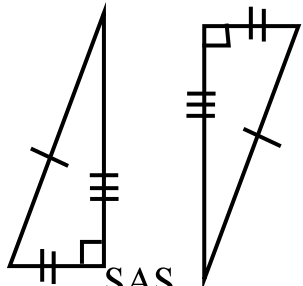
9)  10 ft.
10 ft.
ASA

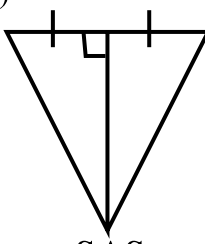
10)  4 m
70°
70°
70°
4 m
AAS

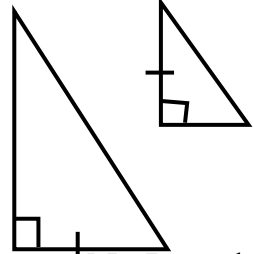
11)  40°
50°
40°
50°
No Postulate

12)  SAS

13)  7 in.
7 in.
3 in.
3 in.
No Postulate

14)  SAS

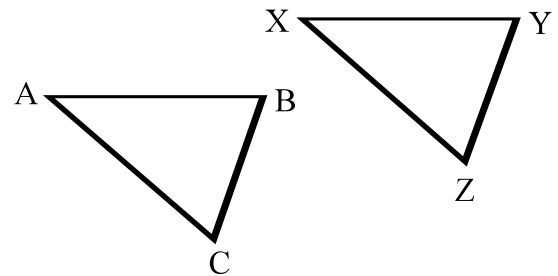
15)  SAS

16)  No Postulate

We want to know if $\triangle ABC \cong \triangle XYZ$.

17) We know that $\angle A \cong \angle X$. What other information would make it possible to use AAS?

Or $\angle C \cong \angle Z$ and $BC \cong YZ$



18) We know that $\overline{BC} \cong \overline{YZ}$. What other information would make it possible to use SSS?

$AB \cong XY$ and $AC \cong XZ$

19) We know that $\overline{AB} \cong \overline{XY}$. What other information would make it possible to use ASA?

$$\angle A \cong \angle X \quad \text{and} \quad \angle B \cong \angle Y$$