I. $\Delta PQR \cong \Delta ABC$. Find the values of x and y.

1.
$$m \angle R = 5x + 70$$
, $m \angle C = 24x - 25$, $QR = 4y + 2$, $BC = x + y$

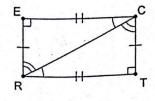
2.
$$m \angle R = 90 - y$$
, $m \angle C = 13$, $PR = 3x + y - 1$, $AC = 32 - x$

3.
$$PQ = 5x - 31$$
, $QR = -3y - 1$, $BC = x + 1$, $AB = 9 - y$

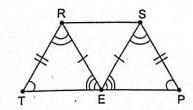
4.
$$m \angle A = 15y - 3$$
, $m \angle P = 43 - x$, $PQ = 11 - x$, $AB = 3y + 1$

5.
$$AB = 2x + y$$
, $PQ = 7$, $BC = 11$, $QR = 4x + y$

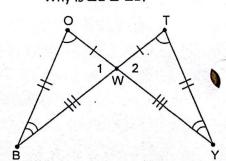
- 6. $\triangle XYZ \cong \triangle MNO$, $m \angle X = x + 10$, $m \angle M = y + 20$, $m \angle Y = 3x$, and $m \angle N = x + 3y$. Find $m \angle X$ and $m \angle Y$.
- II. Indicate which triangles are congruent. Be sure to have the correspondence of the letters correct.
 - a. $\Delta ERC \cong \underline{\hspace{1cm}}$ Why is $\overline{RC} \cong \overline{RC}$?



b. E is the midpoint of \overline{TP} $\triangle SPE \cong$

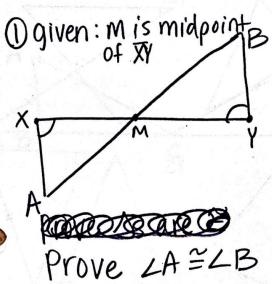


c. $\triangle BOW \cong$ _______ Why is $\angle 1 \cong \angle 2$?



W 8-2 - Congruent Triangles OMIT # 11 and 12

State how As could be proven =. If not =, state NONE. 1. 12. 14.

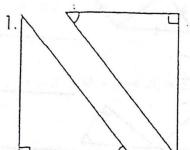


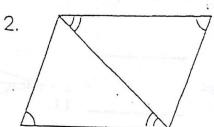
Prove Ss are ≅.

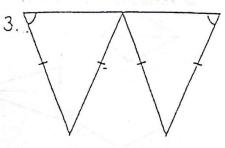
HW 8-3

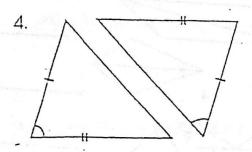
More Congruent Triangles

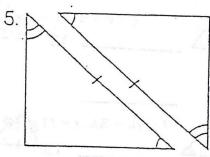
Identify which property will prove these triangles congruent. (SSS, SAS, ASA, AAS, HL or none)

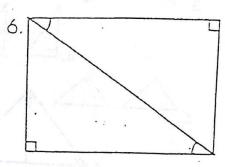


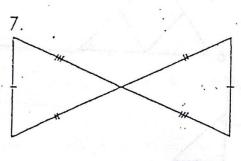


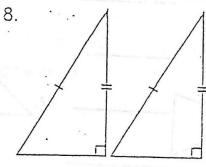


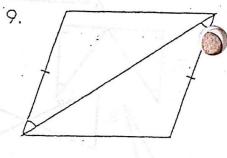


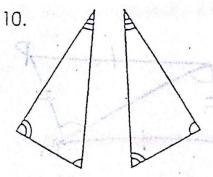


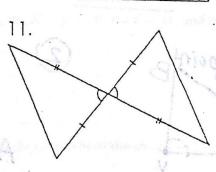


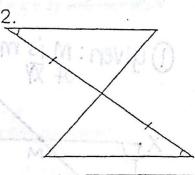


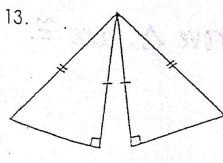


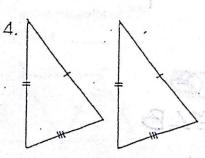


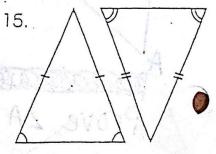








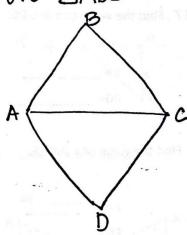




8-43 Practice Proofs - For each of the following create a two-column proof. Be sure to use correct notation and only use postulates/theorems after you have all the necessary components eeded to validate that statement.

Given: BC = CD

AC bisects LBCD Prove: DABC = DADC



(2) Given: $\overrightarrow{AB} \cong \overrightarrow{ED}$ c is midpoint of \overrightarrow{BD} 丽上丽, 面上丽

Prove: DABC = DEDC

