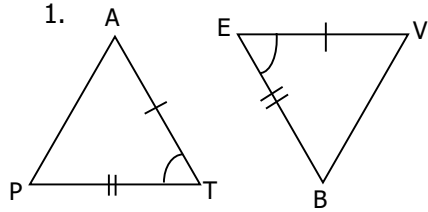
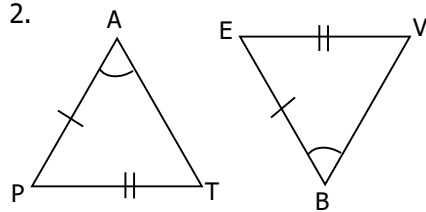


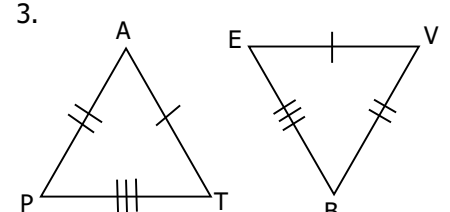
For each situation, Pat and Bev were given the same information to create a triangle. This is shown by the markings on each triangle. Determine if they were FORCED to create the SAME triangle (congruent triangles) or if the triangles are not necessarily identical. **If they are congruent, list the triangle congruence theorem as well.**



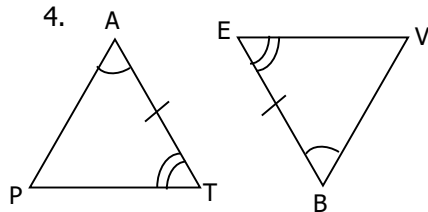
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



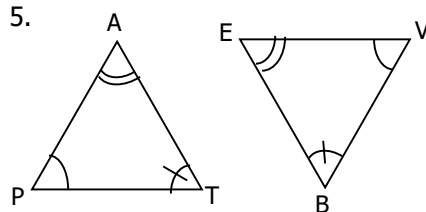
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



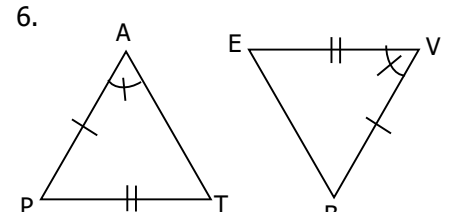
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



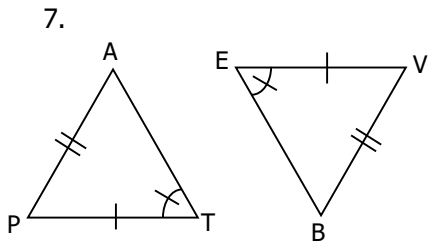
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



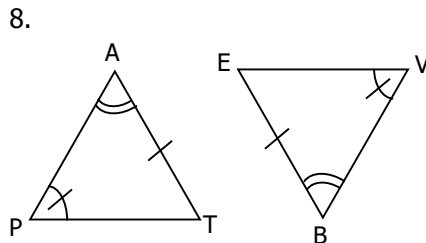
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



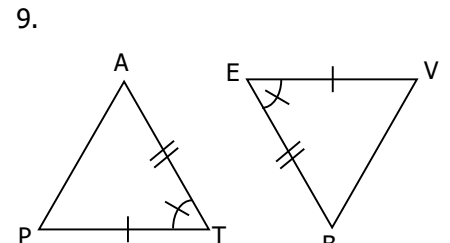
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



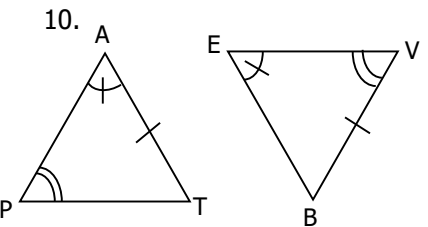
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



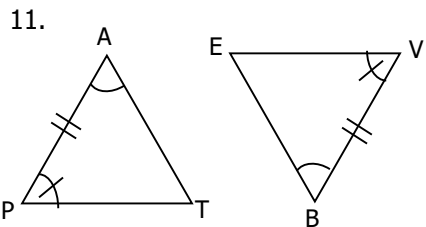
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



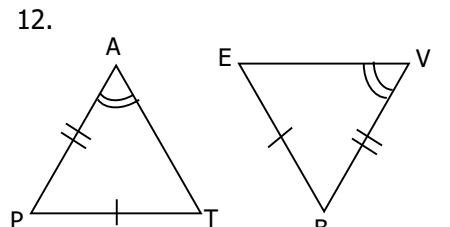
Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent



Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent

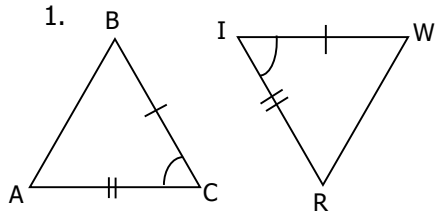


Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent

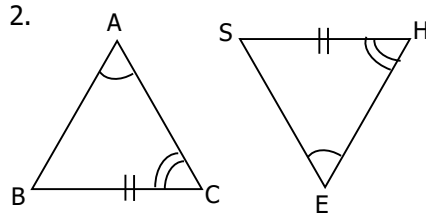


Triangles Congruent by \_\_\_\_\_  
 \_\_\_ Triangles Not Necessarily Congruent

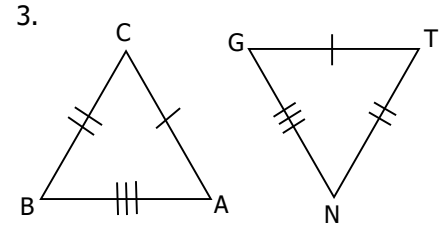
For each problem give the correct naming order of the congruent triangles. Write that name in order on the lines for the problem number (see box at bottom). Also, indicate which postulate or theorem is being used.



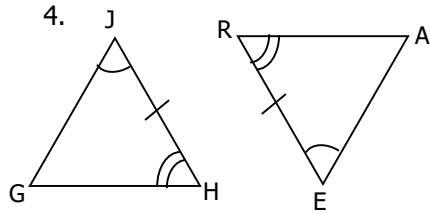
$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



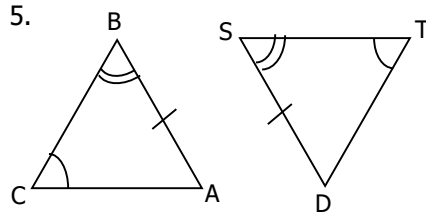
$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



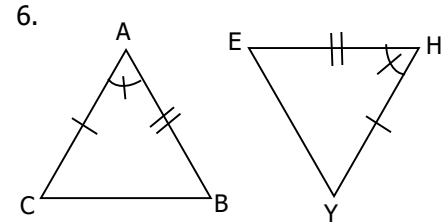
$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



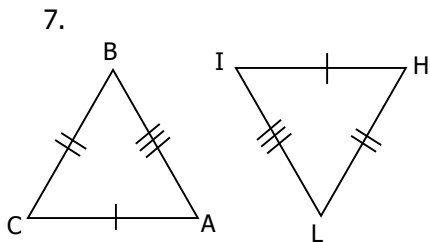
$\triangle GHJ \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



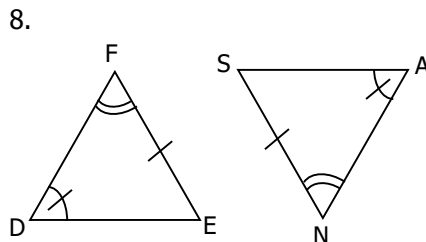
$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



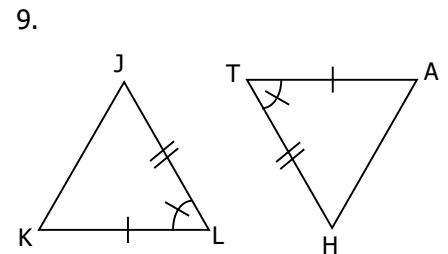
$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



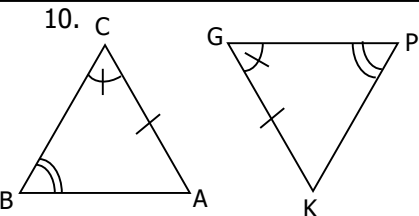
$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



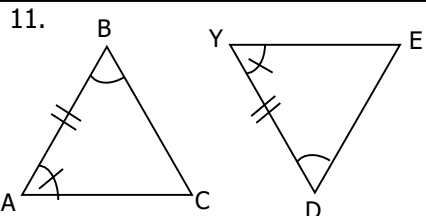
$\triangle DEF \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



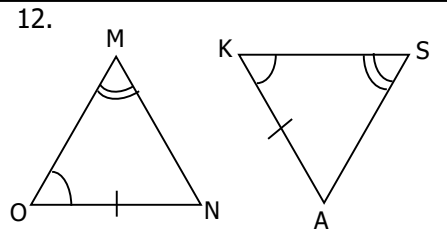
$\triangle JKL \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



$\triangle ABC \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$



$\triangle MNO \cong \triangle \underline{\hspace{1cm}}$  by  $\underline{\hspace{1cm}}$

$\frac{4}{6} \frac{4}{6} \frac{4}{10} \frac{8}{10} \frac{8}{10} \frac{O}{10} \frac{8}{10} \frac{12}{10} \frac{N}{10} \frac{12}{10} \frac{12}{10} \frac{2}{10} \frac{S}{10} \frac{2}{10} \frac{2}{10} \frac{E}{10} \frac{5}{10} \frac{I}{10} \frac{5}{10} \frac{5}{10} \frac{9}{10} \frac{9}{10} \frac{9}{10} \frac{T}{10} \frac{6}{10}$   
 $\frac{6}{10} \frac{6}{10} \frac{10}{10} \frac{E}{10} \frac{E}{10} \frac{10}{10} \frac{10}{10} \frac{1}{10} \frac{O}{10} \frac{1}{10} \frac{1}{10} \frac{N}{10} \frac{3}{10} \frac{U}{10} \frac{3}{10} \frac{3}{10} \frac{7}{10} \frac{7}{10} \frac{T}{10} \frac{7}{10} \frac{E}{10} \frac{11}{10} \frac{11}{10} \frac{I}{10} \frac{11}{10}$

(When you are done with the puzzle, there are: 3 SAS, 5 AAS, 2 ASA, and 2 SSS instances.)