ANSWERS

DIRECTIONS: For #1-9, fill in the blanks with the most accurate responses.

- **1.** If $\triangle ABC \cong \triangle ZXY$, then $\measuredangle A \cong \measuredangle Z$ **2.** If $\triangle ABC \cong \triangle ZXY$, then $\measuredangle B \cong \measuredangle X$ **3.** If $\triangle ABC \cong \triangle ZXY$, then $\measuredangle C \cong \measuredangle Y$ **4.** If $\triangle ABC \cong \triangle ZXY$, then $\overline{AB} \cong \overline{ZX}$ **5.** If $\triangle ABC \cong \triangle ZXY$, then $\overline{BC} \cong \overline{XY}$ **6.** If $\triangle ABC \cong \triangle ZXY$, then $\overline{AC} \cong \overline{ZY}$
- 7. What is the reason why each of #1-6 is true? CPCTC
- **8.** In $\triangle ABC$, what angle is included between \overline{BC} and \overline{CA} ? $\measuredangle C$
- 9. "CPCTC" stands for

Corresponding Parts of Congruent Triangles are Congruent (Corr Parts of $\cong \Delta s$ are \cong)

<u>DIRECTIONS</u>: For #10-13, write the postulate or theorem you could use to prove the triangles congruent. If none exist, write "NONE."

10. SSS







12. AAS or ASA







DIRECTIONS: Use a straightedge and a compass to complete the construction.

14. Construct a copy of this triangle (This may help \rightarrow <u>https://youtu.be/KuRmdHz -8Y</u>)



DIRECTIONS: For #15, complete the proof. Be neat. Show work on diagram.



There are several ways to get from step 4 to step 6 – this is one example