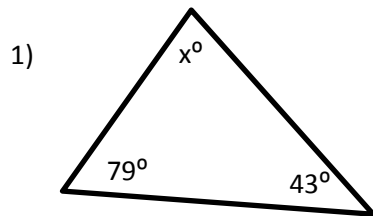


Name _____

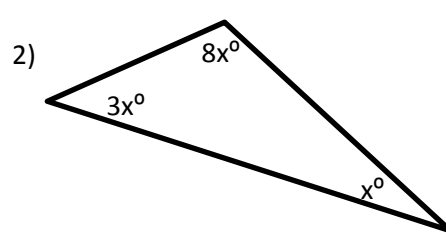
Date _____

Geometry: Triangle Properties and Proofs

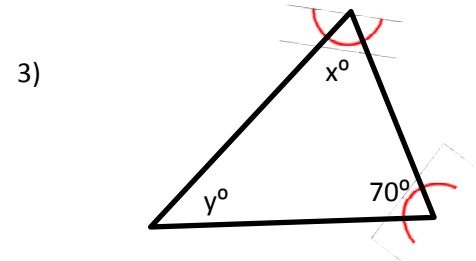
Use the Angle Sum Theorem, Exterior Angles Theorem, and the Third Angle Theorem to find missing values of the following.



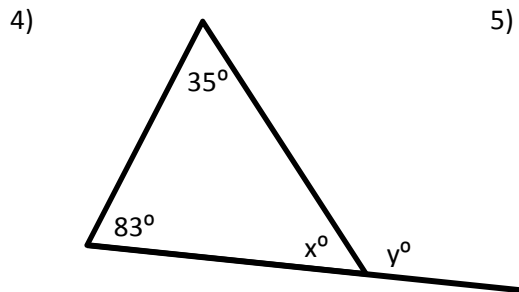
$X = \underline{\hspace{2cm}}$



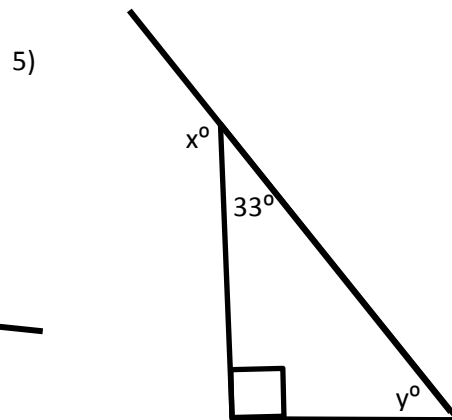
$X = \underline{\hspace{2cm}}$



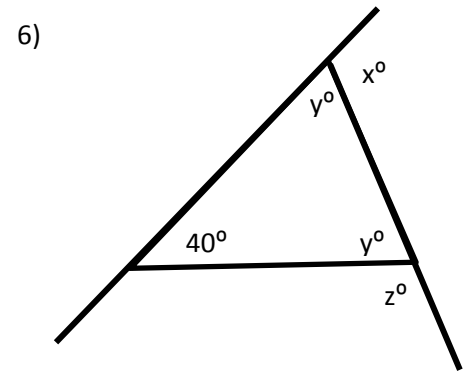
$X = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



$X = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



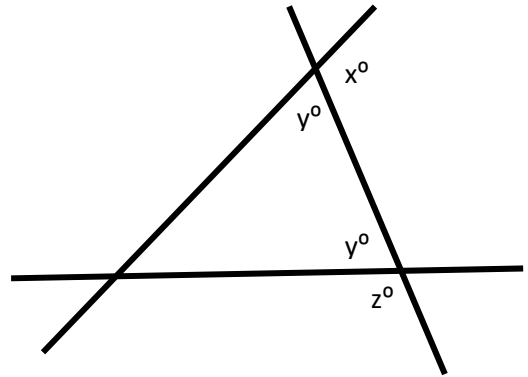
$X = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



$X = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $z = \underline{\hspace{2cm}}$

Challenge Problem:

Use the following diagram to prove the results for x and z on problem number 6.
(Use vertical angles, linear pairs, etc.)



Statement	Reason