

Names 1. _____ Period _____

2. _____

3. _____

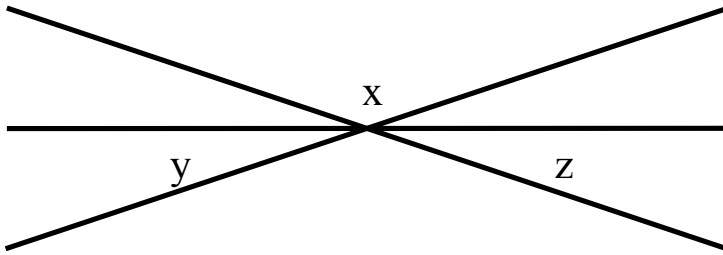
Groups may be no larger than 3 students. Answer each question as completely as possible showing all your work. Remember to keep your cell phones away! Raise your hand if you have a question. Calculators are NOT allowed on this exam. Turn in the assessment when your group is finished. Your group may use their Vocabulary Log as an aid.

1. Fill in each box as clearly as possible. Each group member must contribute one definition.

	Exterior Angle of a Triangle	Auxiliary Line	Corresponding Angles
Group member name			
Definition (words)			
Picture or Drawing			
Additional Information or Properties			

2. Use the image below for the following proof.

Prove that $m\angle x + m\angle y + m\angle z = 180^\circ$.



- Possible Justifications:
- Vertical angles are equal in measure.
 - Alternate interior angles are equal in measure.
 - Corresponding angles are equal in measure.
 - Substitution property of equality
 - Linear pairs are supplementary.
 - Transitive Property.

3. Determine which statement(s) or justification(s) are **incorrect**. Improve them by circling or striking out the incorrect claims and **provide the correct statement**.

Given the figure to the right,
 Prove that $m\angle ABC = m\angle DEF$

$m\angle ABC = m\angle EZC$ Alternate interior angles are equal in measure.

$m\angle EZC = m\angle DEF$ Corresponding angles are equal in measure.

$\therefore m\angle ABC = m\angle DEF$ Reflexive Property.

