Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**3.4A Using Similar Triangles\_Classwork**

*Objective: identifying similar triangles using AA Postulate CC.SS.8.G.5*

|  |
| --- |
| **Angles of Similar Triangles (AA Postulate)****Word:** When two angles in one triangle are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to two angles in another triangle, the  third angles are also \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the two triangles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**Symbol:** Triangle ABC is similar to Triangle DEF, $∆ABC\~∆DEF$**Example:**  |

***Tell whether the triangles are similar. Explain.***

|  |  |
| --- | --- |
| a. | b. |
| c.  | d.  |
| e. | f. |

Name Date

Practice Problems

For use after Lesson 3.4

3.4

Tell whether the triangles are similar. Explain.

 1.  2. 

 3.  4. 

 5. You can use similar triangles to find the
height of a tree. Triangle *ABC* is similar
to triangle *DEC*. What is the height of
the tree





