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| --- | --- |
| **Angle-Angle Similarity (AA~) Postulate** | If \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of one triangle are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of another triangle, then the triangles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Side-Angle-Side Similarity (SAS~) Theorem** | If an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of one triangle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a second triangle and the \_\_\_\_\_\_\_\_\_\_\_that include the \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the triangles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Side-Side-Side Similarity (SSS~) Theorem** | If the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of two triangles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the the triangles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Problem 1** | Determine whether the triangles are similar. If so, write a similarity statement and name the postulate or theorem used.A. B.C. D.  |
| **Indirect Measurement****Problem 2** | Find the height of the flagpole. |
| **Indirect Measurement****Problem 3** |  |

**APPLICATION**



**4.** At a certain time of day, a 1.8-m-tall person standing next to the Washington Monument casts a 0.7-m shadow. At the same time, the Washington Monument casts a 65.8-m shadow. How tall is the Washington Monument?

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