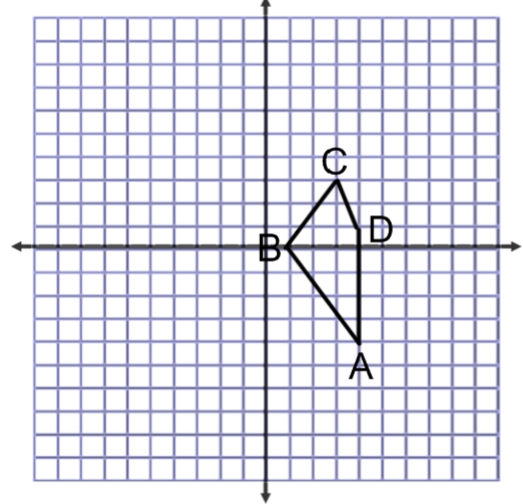
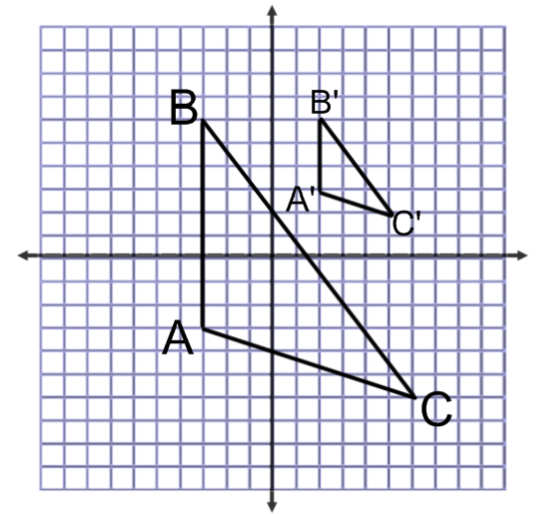
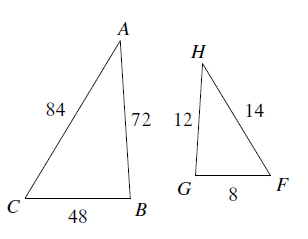
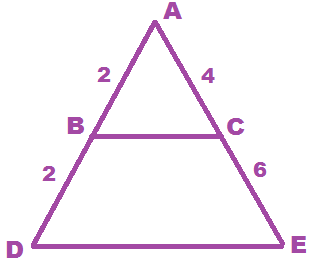
**Quiz 4.1 REVIEW – Honors** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

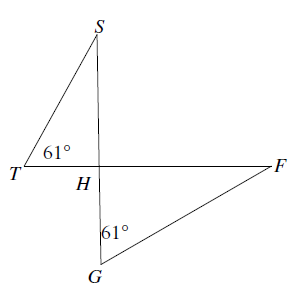
1. Dilate the image by 3 around the point (4,-2) 2. Find the scale factor and the center dilation

3. Are these triangles similar? 4. Are these triangles similar?   
 If so, by what theorem? If so, by what theorem?

 *Justify with work. Justify with work.*



5. Are these triangles similar?

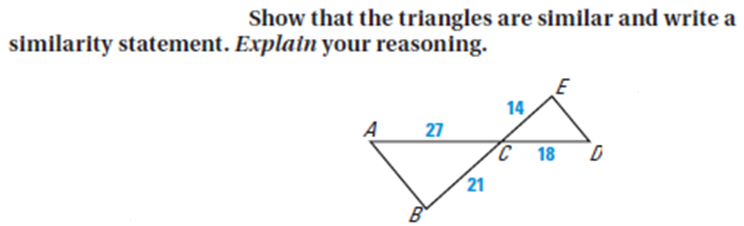
 If so, by what theorem?

*Justify with work.*

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
|  |  |

8. **Given:**

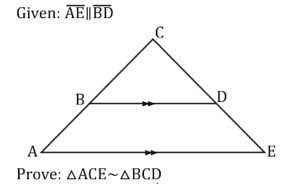
**Prove:**

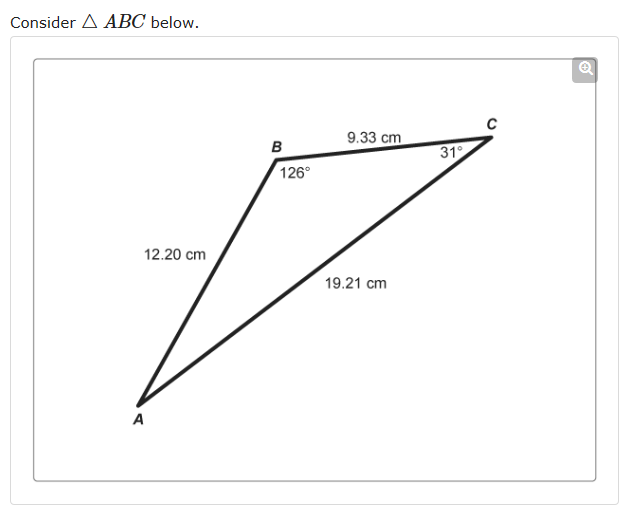


|  |  |
| --- | --- |
| **Statements** | **Reasons** |
|  |  |

9. **Given:**

**Prove:**





10.

Suppose a new triangle is constructed with vertices *D*, *E*, and *F.* Which of the following sets of information about the new triangle are sufficient to prove that the new triangle is similar to ? *Choose all that apply.*

a]

b]

c]

d]

e]

11. Which of the following sets of conditions could be used to prove ? *Select all that apply.*

c]

d]

e]

a]

b]