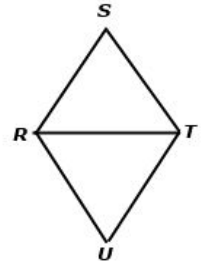


Module 7 & 8 Finals Review Task

Module 7 Finals Review

1. In the figure to the right, $\angle STR \cong \angle URT$ and $\overline{ST} \cong \overline{UR}$. What **triangle congruence theorem** will prove $\triangle TRS \cong \triangle RTU$?

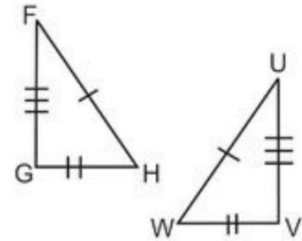


_____ Theorem will prove $\triangle TRS \cong \triangle RTU$.

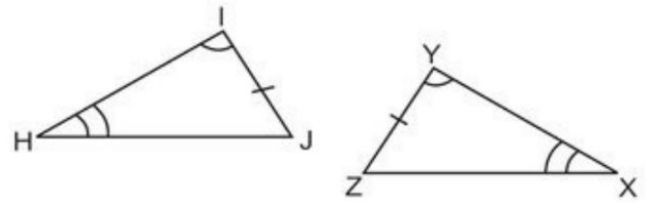
2. In the figure to the right, identify the **triangle congruence criteria** and state evidence (**congruence statements**).

_____ Congruence Criteria/Theorem

_____ \cong _____
 _____ \cong _____
 _____ \cong _____

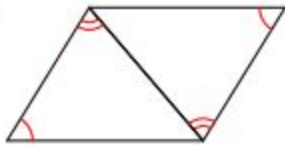


3. Which **triangle congruence criteria** that can be used to prove the two triangles to the right are congruent.

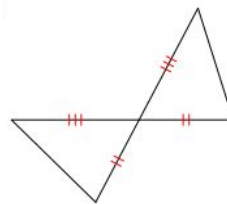


4. Determine the **triangle congruence theorem** for the following triangles.

a.



b.



Module 8 Finals Review

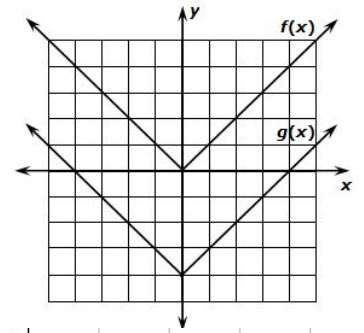
5. For the following equations, describe how the $f(x)$ will translate from $g(x)$.

a. $f(x) = g(x) - 6$

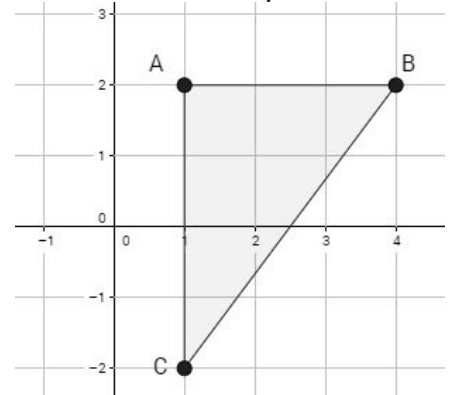
b. $f(x) = g(x) + 2$

c. $f(x) = g(x) - 25$

6. Two functions, $f(x)$ and $g(x)$, are shown in the coordinate plane. The function $g(x)$ is a transformation of the function $f(x)$. Write the **translation form** for $g(x)$.



7. Given triangle ABC in the coordinate grid above, what is the **perimeter** of this triangle?



8. Find the **distance** for the following points.

a. $(8, 1)$ and $(-5, 2)$

b. $(-1, 3)$ and $(5, 7)$

c. $(-1, 2)$ and $(4, 1)$

d. $(5, 16)$ and $(2, 1)$

9. For each linear equation write the slope of a line **parallel** to the given line.

a. $y = -\frac{4}{15}x - 4$

b. $y = \frac{1}{2}x + 5$

c. $y = \frac{6}{7}x - 5$

10. For each linear equation write the slope of a line **perpendicular** to the given line.

a. $y = -\frac{4}{15}x - 4$

b. $y = \frac{1}{4}x - 3$

c. $y = \frac{5}{6}x + 2$