

Find all of the following pairs of angles:

Corresponding (4 of them) \_\_\_\_\_

Alternate interior (2) \_\_\_\_\_

Alternate Exterior (2) \_\_\_\_\_

Vertical (4) \_\_\_\_\_

Linear Pair (8) \_\_\_\_\_

Same side interior (2) \_\_\_\_\_

Same side exterior (2) \_\_\_\_\_

Measure angle 4, then use that information to find the measures of angles 2-8 and state a reason for each angle measure.

Angle 1:  $115^\circ$  Reason: Given,

Angle 2: Reason: \_\_\_\_\_

Angle 3: Reason: \_\_\_\_\_

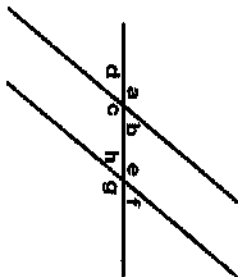
Angle 4: Reason: \_\_\_\_\_

Angle 5: Reason: \_\_\_\_\_

Angle 6: Reason: \_\_\_\_\_

Angle 7: Reason: \_\_\_\_\_

Angle 8: Reason: \_\_\_\_\_



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Alternate Exterior (2) \_\_\_\_\_

Vertical (4) \_\_\_\_\_

Linear Pair (8) \_\_\_\_\_

Same side interior (2) \_\_\_\_\_

Same side exterior (2) \_\_\_\_\_

Measure angle H, then use that information to find the measures of angles A-G and state a reason for each angle measure.

Angle A:  $117^\circ$  Reason: Given,

Angle B: Reason: \_\_\_\_\_

Angle C: Reason: \_\_\_\_\_

Angle D: Reason: \_\_\_\_\_

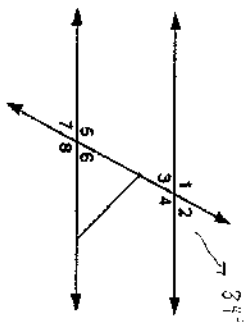
Angle E: Reason: \_\_\_\_\_

Angle F: Reason: \_\_\_\_\_

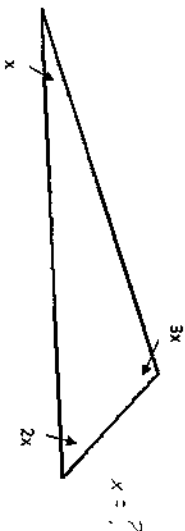
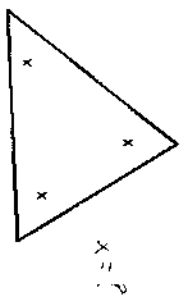
Angle G: Reason: \_\_\_\_\_

Angle H: Reason: \_\_\_\_\_

Draw two similar triangles for me. Make sure to label each vertex and to label which angles are congruent. Then give a similarity statement for the two triangles. Name each segment and which segment it is similar to in the other triangle.



Notice the triangle above. How are angles 5 and 6 related? What is the measure of angle 6? Angle 5? What does this tell us about exterior angles of a triangle?



Name \_\_\_\_\_

Period \_\_\_\_\_ Date \_\_\_\_\_

[illegible]