

Honors Geometry – Additional Problems due 9/30

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In Exercises 19–22, tell whether the statement is true or false. For each false statement, explain why it is false and sketch a counterexample.

- 19. If two sides in one triangle are congruent to two sides in another triangle, then the two triangles are congruent.
- 20. If two angles in one triangle are congruent to two angles in another triangle, then the two triangles are congruent.
- 21. If a side and an angle in one triangle are congruent to a side and an angle in another triangle, then the two triangles are congruent.
- 22. If three angles in one triangle are congruent to three angles in another triangle, then the two triangles are congruent.

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10. DEVELOPING PROOF Calculate the measure of each lettered angle. Explain how you determined the measures d and h .

