## 11.4H Just Prove It!

Name: Per: SHOW YOUR WORK AND WORK IN PENCIL 1. Find the following angle measurements. a. $m \angle A =$ \_\_\_\_\_ b.  $m \angle B =$ \_\_\_\_\_ c.  $\angle C =$ \_\_\_\_\_  $3(5+\frac{2}{2}x)$ (5x)° A C

d. Explain why you can find the angle measurements for the second triangle.

- 2. Using the image right, find the coordinates for the following if E(0, 0) and C(5, -4)
  - a. I(\_\_\_, 6) A(-4, \_\_\_)

Find the length of the indicated line segment.

 $\overline{IG}=$ b.  $\overline{HD}$ =  $\overline{AI} =$ 



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3. Complete the mathematical statements about the kite using the given symbols ( $\cong \perp // <>=$ ). Justify each statement ALGEBRAICALLY or with a THEOREM.



4. List 5 things you can prove from an isosceles triangle with a perpendicular bisector. Explain why you can prove those things.



Proving Triangles Congruent: Use two-column proofs for **4 of the problems P1-P6** below on a separate piece of paper. Your proof must be complete and correct!



Use two-column proofs for 3 of the problems P7-11 below on a separate piece of paper. Choose 3 of the

