In $\triangle A B C, X$ is the centroid.

1. If $C W=15$, find $C X$ and $X W$.
2. If $B X=8$, find $B Y$ and $X Y$.
3. If $X Z=3$, find $A X$ and $A Z$.


Is $\overline{A B}$ a median, an altitude, or neither? Explain.
4.

5.

6.

7.

$\qquad$ Class $\qquad$ Date $\qquad$

3. What is the second step in writing an indirect proof?
4. Find the contradiction:
a. How are the base angle measures of an isosceles triangle related?

b. What must be the measure of each base angle?

c. What is the sum of the angle measures in a triangle? $\square$
d. If both base angles of $\triangle X Y Z$ are right angles, and the non-base angle has a measure greater than 0 , what must be true of the sum of the angle measures? $\square$
e. What does your assumntion contradict?

5. What is vour conclusion? $\square$
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