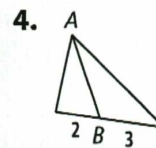
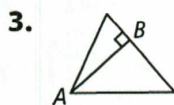
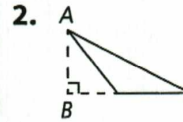
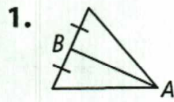


Name _____

5-3 Additional Practice

Medians and Altitudes

For each triangle, identify whether \overline{AB} is an altitude, a median, or neither.

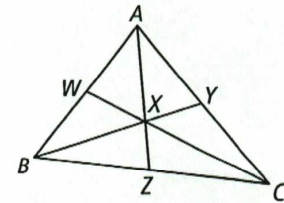


In $\triangle ABC$, X is the centroid.

5. If $CW = 15$, what are CX and X ?

6. If $XZ = 3$, what are AX and AZ ?

7. If $BX = 14x + 8y$, what are BY and XY ?



8. $\triangle ABC$ has vertices $A(0, 0)$, $B(0, -2)$, and $C(-3, 0)$. What are the coordinates of the orthocenter of $\triangle ABC$?

9. **Apply** Cut a large isosceles triangle out of paper. Paper-fold to construct the medians and the altitudes. How are the altitude to the base and the median to the base related?