## Geometric Mean Theorems - Right Triangles - Side

Side is Geometric Mean between Segment Adjacent to Hypotenuse and Hypotenuse


$$
\frac{A X}{A C}=\frac{A C}{A B}
$$

Use the diagram above to answer the following questions.

1. Find AC if $\mathrm{AX}=4$ and $\mathrm{AB}=9$
2. Find $A C$ if $A X=2$ and $A B 8$
3. Find AX if $\mathrm{AC}=8$ and $\mathrm{AB}=16$
4. Find $A B$ if $A C=6$ and $A X=4$. Find $X B$.
5. Find AB if $\mathrm{AC}=10$ and $\mathrm{AX}=5$. Find XB .
6. Find $A C$ if $A X=3$ and $A B=8$. Find $X B$.
7. Find AX if $\mathrm{AC}=2 \sqrt{3}$ and $\mathrm{AB}=8$
8. Rewrite the formula if we used side BC.
