

Are the triangles similar? If so, write a similarity statement and name the postulate or theorem you used. If not, explain.



5. When a 6 ft tall man casts a shadow 18 ft long, a nearby tree casts a shadow 93 ft long. How tall is the tree?















How does \overline{XY} divide the sides of $\triangle ABC$?













...another way to look at the side-splitter thm...









...divides Δ into 2 proportional Δ 's. ...the inner ...and the outer $\Delta AXY \sim \Delta ABC$































a :: b



$$\frac{?}{?} = \frac{?}{?}$$



$$\frac{?}{?} = \frac{?}{?}$$



$$\frac{a}{?} = \frac{?}{?}$$



$$\frac{a}{b} = \frac{?}{?}$$



$$\frac{a}{b} = \frac{?}{?}$$



$$\frac{a}{b} = \frac{c}{d}$$



1 Solve for x:



AC AX









Thm 8-5: Triangle-Angle-Bisector Theorem If a ray bisects an \angle of a \triangle , then it divides the opposite side into 2 segments that are proportional to the 2 other sides of the \triangle . $\frac{CD}{?} = \frac{?}{?}$ $B \longrightarrow D$

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L8-5 Homework Problems

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