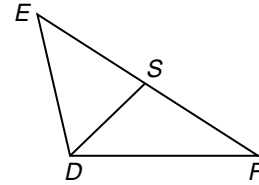
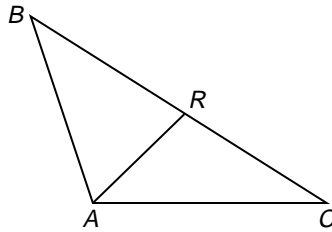


Practice

Parts of Similar Triangles

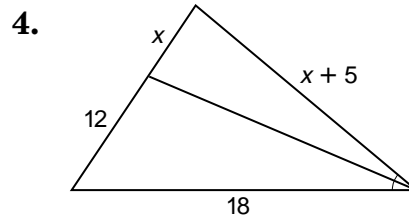
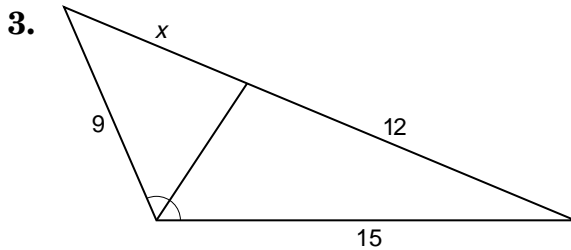
In the figure at the right, $\triangle ABC \sim \triangle DEF$, $\overline{BR} \cong \overline{RC}$, and $\overline{ES} \cong \overline{SF}$. Find the value of x .

1. $BC = 24$
 $EF = 15$
 $AR = x$
 $DS = x - 6$



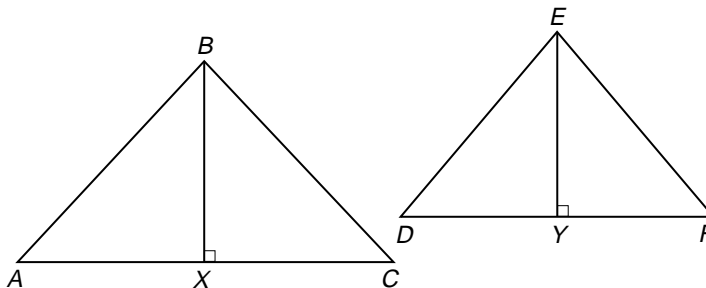
2. $AB = 2x + 5$
 $DE = x + 7$
 $AR = 24$
 $DS = 18$

Find the value of x .



In the figure at the right, $\triangle ABC \sim \triangle DEF$, and \overline{BX} and \overline{EY} are altitudes. Find the value of x .

5. $AB = 25$
 $DE = 16$
 $BX = 18$
 $EY = x$



6. $AB = 30$
 $DE = 25$
 $BX = 2x + 5$
 $EY = x + 10$