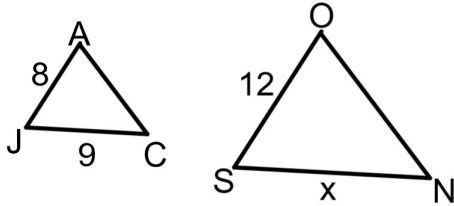
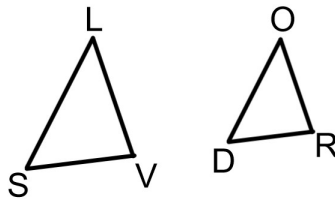


Finding Missing Sides of Similar Triangles

1. In the diagram, $\triangle JAC$ is similar to $\triangle SON$. Find the measure of SN .

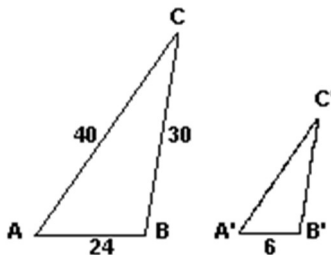


2. In the diagram, $\triangle SLV$ is similar to $\triangle DOR$. If $SV=24$, $DR=16$, $LV=21$, find OR .

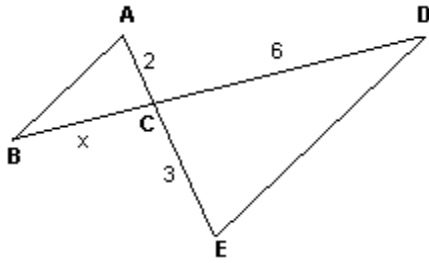


3. Triangle HON is similar to triangle DUR . If $HO=12$, $DU=24$, $UR=18$, find ON .

4. In the diagram, $\triangle ABC$ is similar to $\triangle A'B'C'$, $AB = 24$, $BC = 30$, and $CA = 40$. If the shortest side of $\triangle A'B'C'$ is 6, find the length of the longest side of $\triangle A'B'C'$.

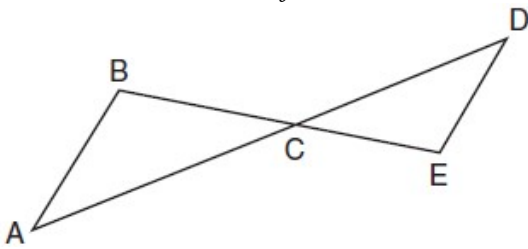


5. In the diagram below, $\overline{AB} \parallel \overline{DE}$. If $AC = 2$, $CD = 6$, and $CE = 3$, what is BC ?

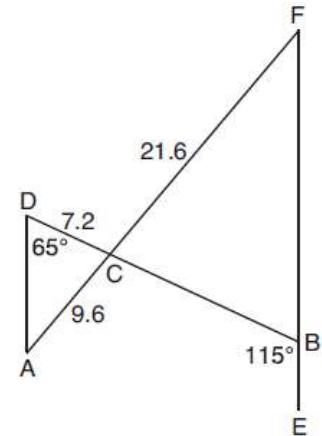


6. In the diagram below, \overline{AD} intersects \overline{BE} at C , and $\overline{AB} \parallel \overline{DE}$.

If $CD = 6.6$ cm, $DE = 3.4$ cm, $CE = 4.2$ cm, and $BC = 5.25$ cm, what is the length of \overline{AC} , to the nearest hundredth of a centimeter?



7. In the diagram below, \overline{AF} and \overline{DB} intersect at C , and \overline{AD} and \overline{FE} are drawn such that $m\angle D = 65^\circ$, $m\angle CBE = 115^\circ$, $DC = 7.2$, $AC = 9.6$, and $FC = 21.6$. What is the length of \overline{CB} ?



8. In the diagram below, $\overline{EF} \parallel \overline{HG}$, $EF = 5$, $HG = 12$, $FI = 1.4x + 3$, and $HI = 6.1x - 6.5$. What is the length of \overline{HI} ?

