

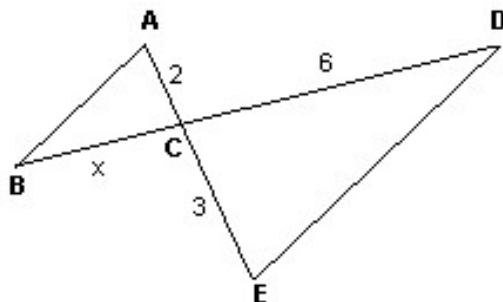
Name _____
Mr. Schlansky

Date _____
Geometry

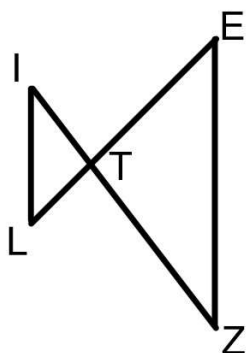


Bow Tie Problems

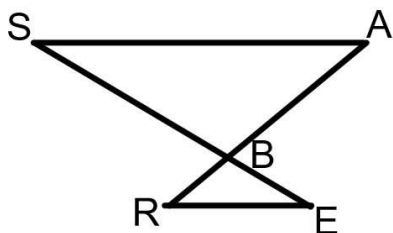
1. In the diagram below, $\overline{AB} \parallel \overline{DE}$. If $AC = 2$, $CD = 6$, and $CE = 3$, what is BC ?



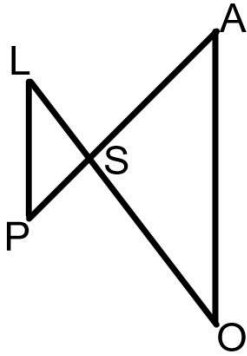
2. In the diagram below, $\overline{LI} \parallel \overline{ZE}$. If $LT = 12$, $TE = 18$, and $IT = 8$, find TZ .



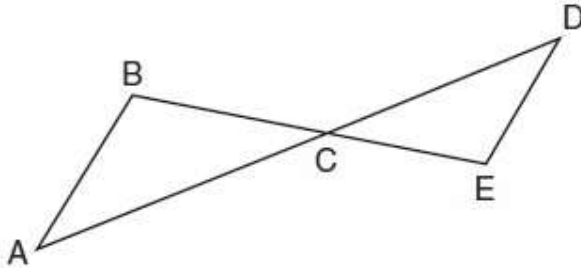
3. In the diagram below, $\overline{SA} \parallel \overline{RE}$. If $SB = 20$, $BE = 4$, and $BA = 12$, find RB .



4. In the diagram below, $\overline{LP} \parallel \overline{AO}$. If $LS = 8$, $SO = 12$, $AO = 11$, and $PS = 6$, find SA .



5. 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?



6. In the diagram below, $\overline{SO}$ intersects $\overline{YF}$ at T , and $\overline{SY} \parallel \overline{FO}$. If $ST = 4.4$, $TO = 10.7$, $\overline{TY} = 4.8$, and $\overline{SY} = 7.1$, what is the length of $\overline{TF}$, to the nearest tenth?

