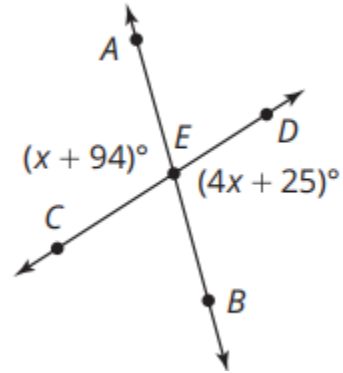
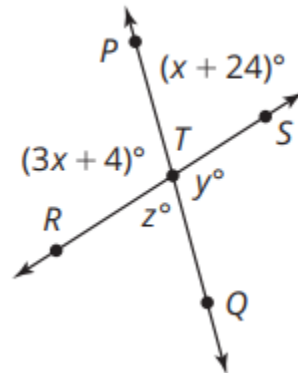


### Notes on using Algebra in Proofs

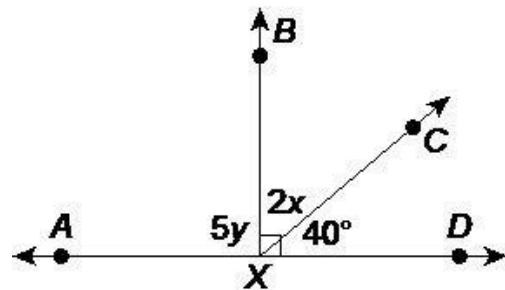
1. In the figure shown,  $\overleftrightarrow{AB}$  intersects  $\overleftrightarrow{CD}$  at point  $E$ . Determine  $m\angle AED$ . Explain how you determined the angle measure.



2. In the figure shown,  $\overleftrightarrow{PQ}$  intersects  $\overleftrightarrow{SR}$  at point  $T$ . Determine each angle measure. Explain how you determined the angle measure.

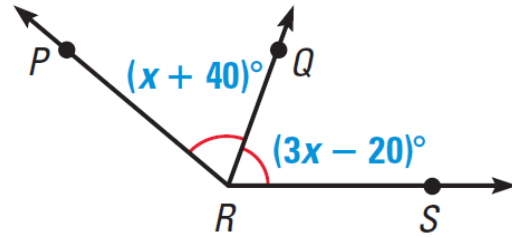


- 3.) Find the value of each variable and the measure of  $\angle BXC$ .



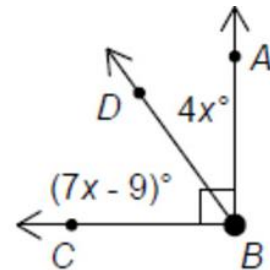
4.) Given:  $\overrightarrow{RQ}$  bisects  $\angle PRS$

Find:  $m\angle PRQ$  and  $m\angle PRS$



5.) Given:  $\angle CBA$  is a right angle

Find:  $m\angle CBD$  and  $m\angle DBA$



6.) Given: A is the midpoint of  $\overline{BC}$

Find:  $m\overline{BA}$ ,  $m\overline{AC}$ , and  $m\overline{BC}$

