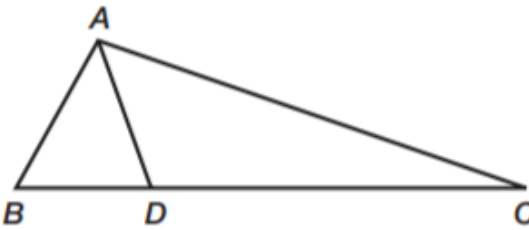
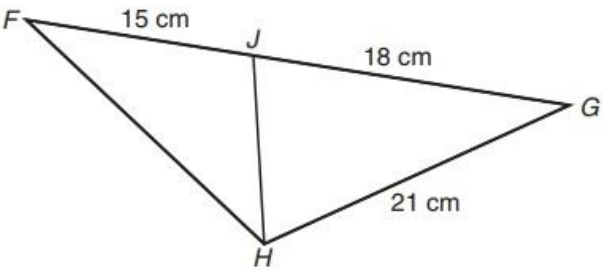
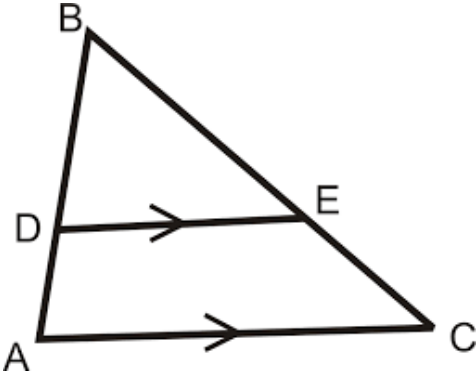
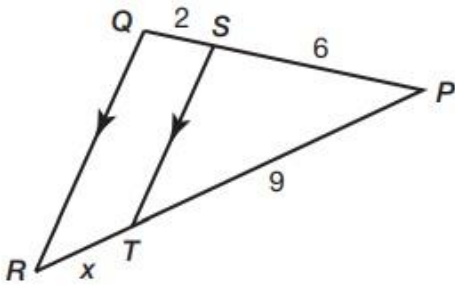
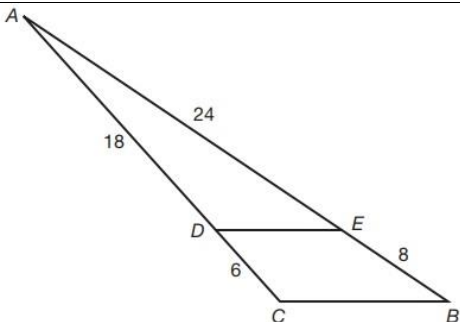
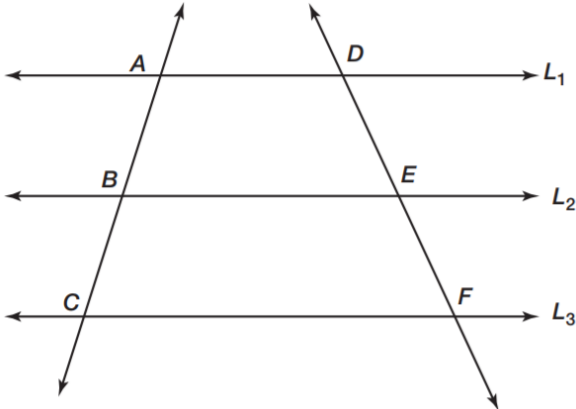
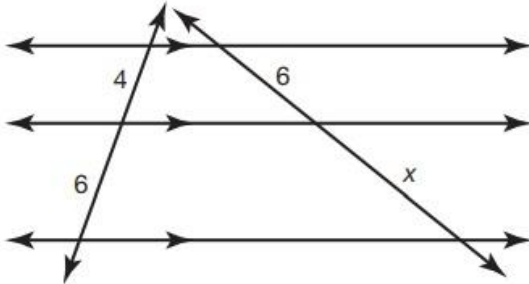
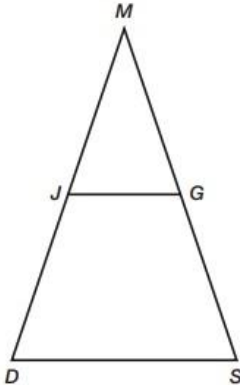
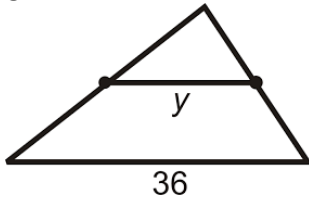


Triangle Similarity Relationships G.SRT

The Angle Bisector/Proportional Side Theorem states: “A _____ of an _____ in a triangle divides the _____ into two segments whose lengths are in the same _____ as the lengths of the sides _____ to the _____.”			
	Measure the following sides to complete the proportion below: $\frac{AB}{AC} = \frac{BD}{CD}$ _____ = _____	What do you notice about the two ratios?	Can you find the missing length? \overline{HJ} bisects $\angle H$. Calculate HF . 

The Triangle Proportionality Theorem states: “If a line _____ to one side of a triangle intersects the other _____, then it _____ the _____ sides _____.”			
	Measure the following sides to complete the proportion below: $\frac{BD}{AD} = \frac{BE}{EC}$ _____ = _____	What do you notice about the two ratios?	Can you find the missing length? 

The Converse of the Triangle Proportionality Theorem states: “If a line of a triangle , then it is to the side.” two				
	Use the given sides to complete the <i>proportion</i> below: $\frac{AD}{DC} = \frac{AE}{EB}$ _____ = _____	What do you notice about the two ratios?	What does that mean?	
The Proportional Segments Theorem states: “If parallel lines intersect two , then they the transversals .”				
	Measure the following sides to complete the <i>proportion</i> below: $\frac{AB}{BC} = \frac{DE}{EF}$ _____ = _____	What do you notice about the two ratios?	Can you find the missing length? 	
	The Triangle Midsegment Theorem states: “The of a triangle is to the third of the triangle and is the measure of the side of the triangle.”			
	Measure the following sides to complete the <i>proportion</i> below: $\overline{JG} =$ $\overline{DS} =$	What do you notice about the two sides?	Can you find the missing length? 	Can you find the missing length? 