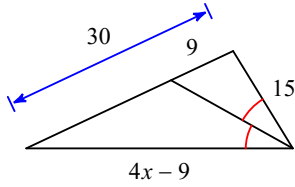


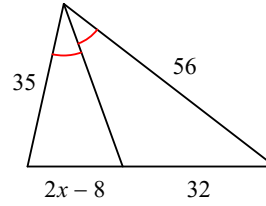
4.6 ~ Proportionality Theorems

Use the Angle Bisector/Proportional Side Theorem to set up and solve a proportion to find the value of x .

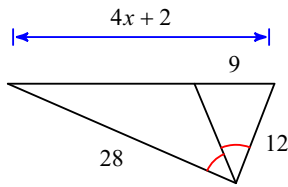
1)



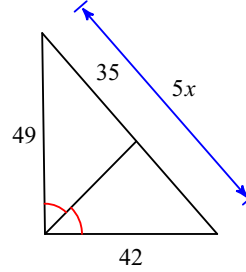
2)



3)

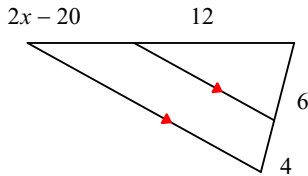


4)

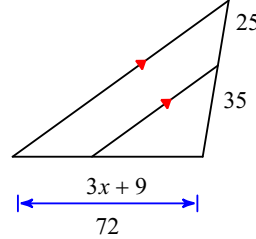


Use the Triangle Proportionality Theorem to set up and solve a proportional to find the value of x .

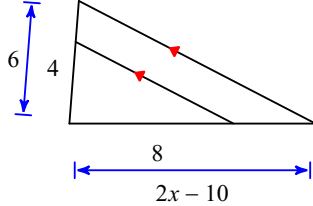
5)



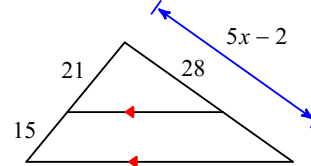
6)



7)

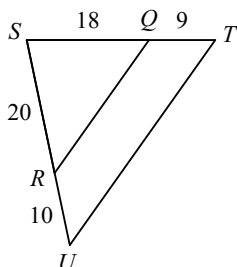


8)



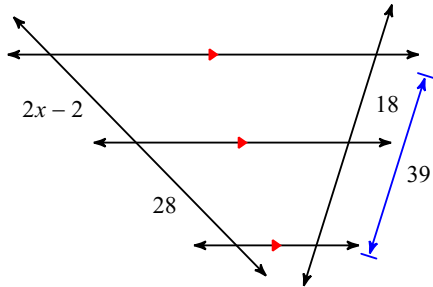
Use the Converse of the Triangle Proportionality Theorem to determine whether \overline{RQ} is parallel to \overline{UT} .

9)

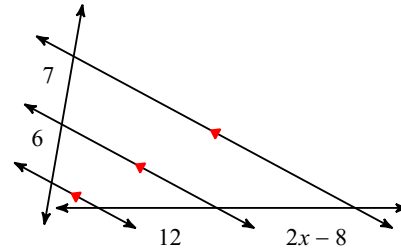


Use the Proportional Segments Theorem to set up and solve a proportion to find the value of x .

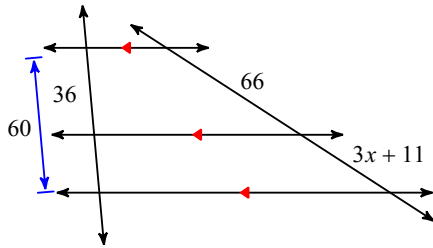
10)



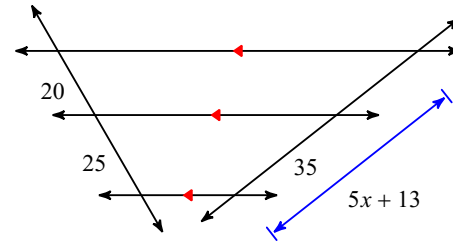
11)



12)

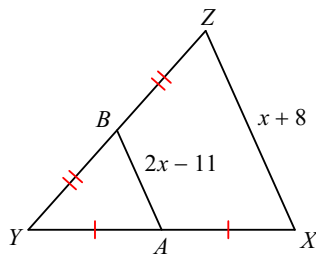


13)

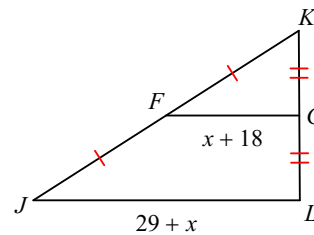


Use the Triangle Midsegment Theorem to set up and solve an equation to find the value of x .

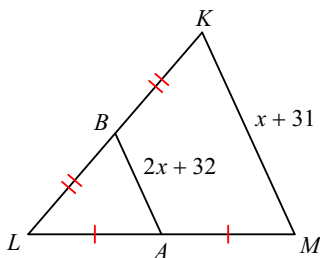
14)



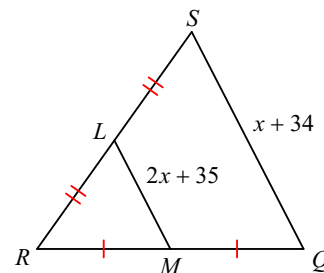
15)



16)



17)



Determine whether \overline{JK} is the midsegment of $\triangle ABC$. Explain your reasoning.

18)

