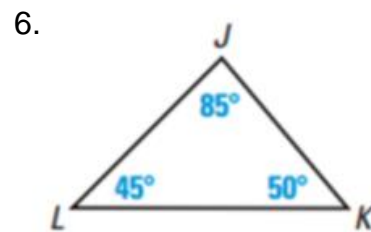
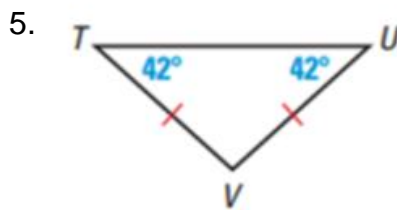
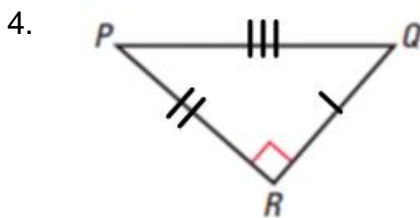
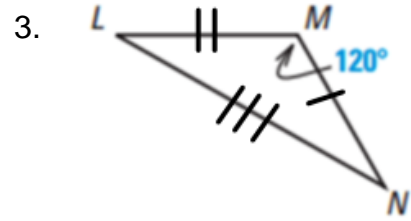
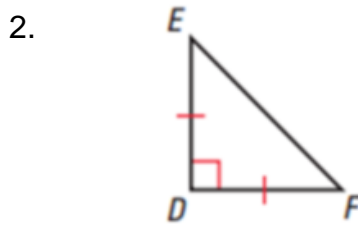
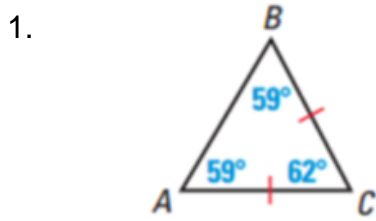
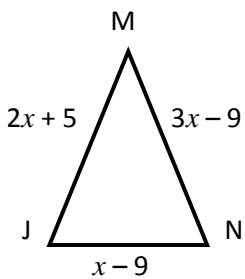


Classify the triangles by their sides and their angles.



7. If $\triangle JMN$ is an isosceles triangle with $\overline{JM} \cong \overline{MN}$, find the following.



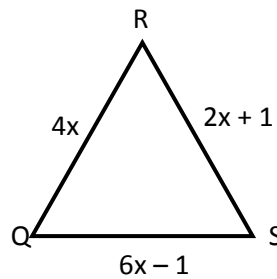
$x =$ _____

$JM =$ _____

$MN =$ _____

$JN =$ _____

8. If $\triangle RQS$ is an equilateral triangle, find the following.



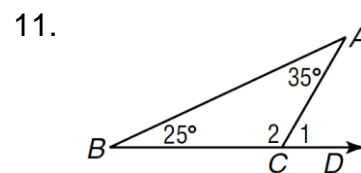
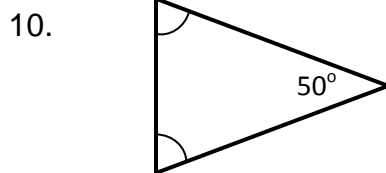
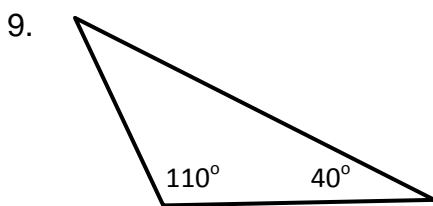
$x =$ _____

$QR =$ _____

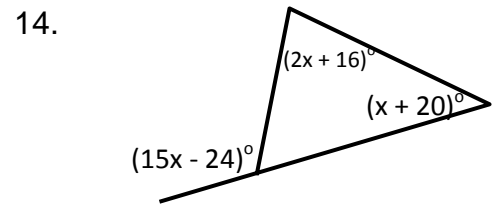
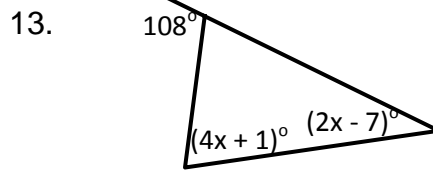
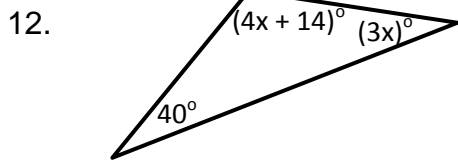
$RS =$ _____

$QS =$ _____

Find the missing angle(s)



Find the value of x .



Find the measure of each indicated angle given $\angle 4 \cong \angle 5$.

15. $m\angle 1 =$ _____

16. $m\angle 2 =$ _____

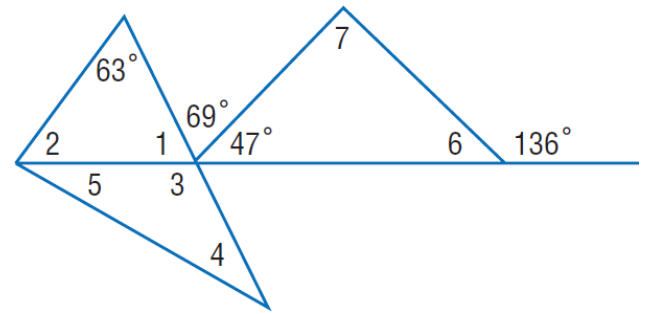
17. $m\angle 3 =$ _____

18. $m\angle 4 =$ _____

19. $m\angle 5 =$ _____

20. $m\angle 6 =$ _____

21. $m\angle 7 =$ _____



22. The diagram shows an example of the Pratt Truss used in bridge construction. Find the measure of angle 1.

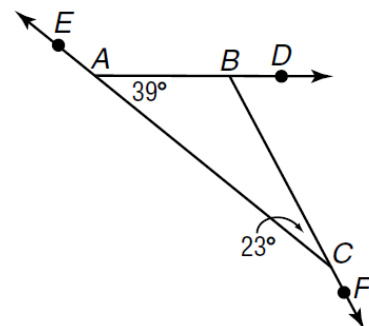


23. Find the measures of the indicated angles.

$m\angle BAE =$ _____

$m\angle ABC =$ _____

$m\angle DBF =$ _____



24. Setup and solve the equation to find x .

