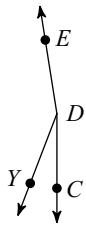
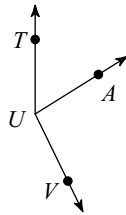


Unit 6.4 Angle Bisector, Angle Add. post. & Classifying Angles EXAMPLES

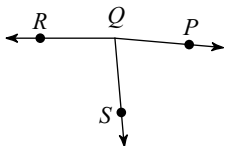
- 1) Find $m\angle CDY$ if $m\angle YDE = 150^\circ$
and $m\angle CDE = 171^\circ$.



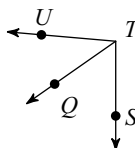
- 2) $m\angle TUA = 58^\circ$ and $m\angle AUV = 96^\circ$.
Find $m\angle TUV$.



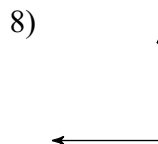
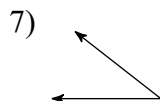
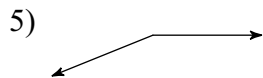
- 3) $m\angle PQR = 57x + 4$, $m\angle PQS = 25x + 5$,
and $m\angle SQR = 95^\circ$. Find x .



- 4) $m\angle STQ = 12x + 7$, $m\angle STU = 23x + 3$,
and $m\angle QTU = 40^\circ$. Find x .



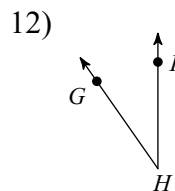
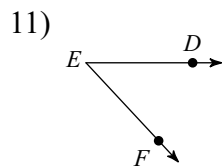
Classify each angle as acute, obtuse, right, or straight.



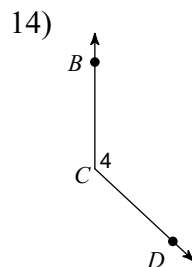
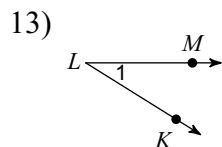
- 9) 126°

- 10) 37°

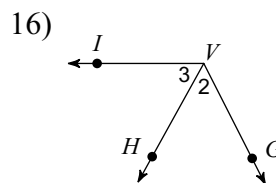
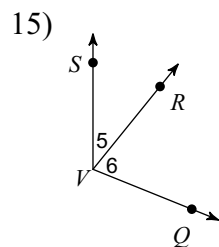
Name the vertex and sides of each angle.



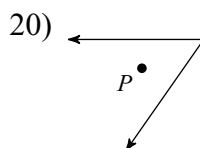
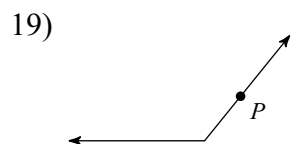
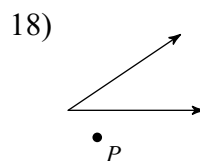
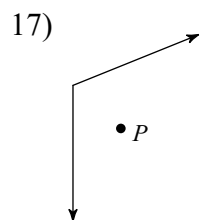
Name each angle in four ways.



Name all the angles that have V as a vertex.

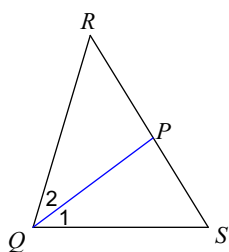


State if the given point is interior, exterior, or on the angle.

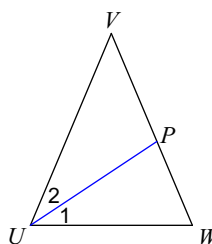


Each figure shows a triangle with one of its angle bisectors.

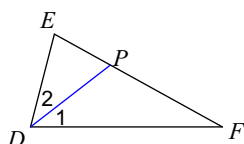
21) Find $m\angle SQR$ if $m\angle 2 = 36^\circ$.



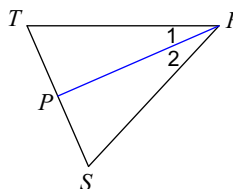
22) $m\angle 2 = 6x - 3$ and $m\angle 1 = 4x + 9$.
Find x .



23) $m\angle 2 = 8x + 6$ and $m\angle 1 = 10x - 2$.
Find $m\angle 1$.

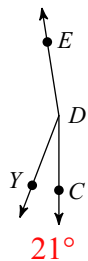


24) Find $m\angle TRS$ if $m\angle 1 = 2x + 5$ and
 $m\angle TRS = 6x - 8$.

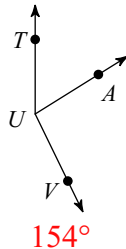


Unit 6.4 Angle Bisector, Angle Add. post. & Classifying Angles EXAMPLES

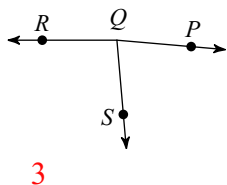
- 1) Find $m\angle CDY$ if $m\angle YDE = 150^\circ$
and $m\angle CDE = 171^\circ$.



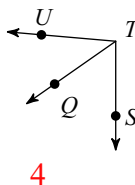
- 2) $m\angle TUA = 58^\circ$ and $m\angle AUV = 96^\circ$.
Find $m\angle TUV$.



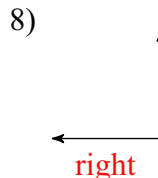
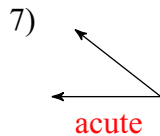
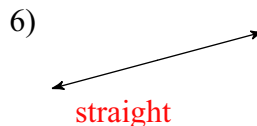
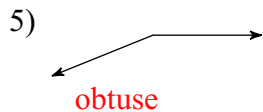
- 3) $m\angle PQR = 57x + 4$, $m\angle PQS = 25x + 5$,
and $m\angle SQR = 95^\circ$. Find x .



- 4) $m\angle STQ = 12x + 7$, $m\angle STU = 23x + 3$,
and $m\angle QTU = 40^\circ$. Find x .



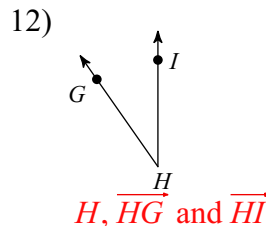
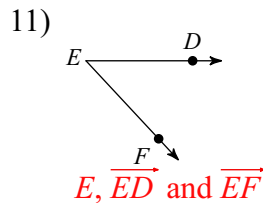
Classify each angle as acute, obtuse, right, or straight.



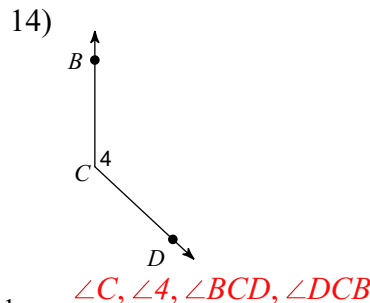
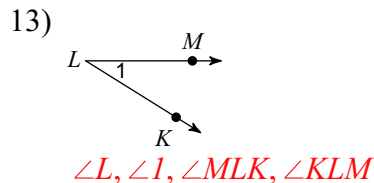
- 9) 126°
obtuse

- 10) 37°
acute

Name the vertex and sides of each angle.

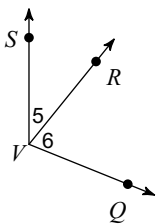


Name each angle in four ways.



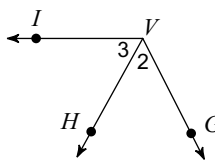
Name all the angles that have V as a vertex.

15)



$\angle 5, \angle 6, \angle SVQ$

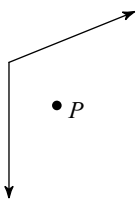
16)



$\angle 2, \angle 3, \angle GVI$

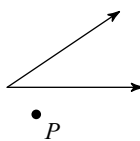
State if the given point is interior, exterior, or on the angle.

17)



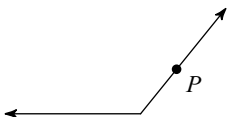
Interior

18)



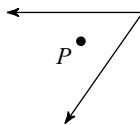
Exterior

19)



On the angle

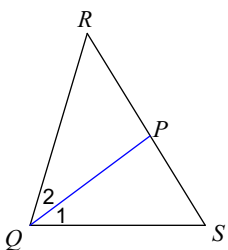
20)



Interior

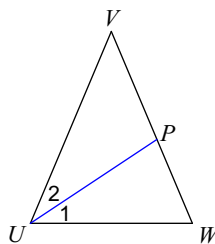
Each figure shows a triangle with one of its angle bisectors.

21) Find $m\angle SQR$ if $m\angle 2 = 36^\circ$.



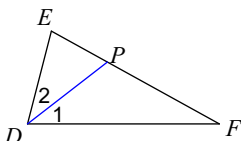
72°

22) $m\angle 2 = 6x - 3$ and $m\angle 1 = 4x + 9$.
Find x .



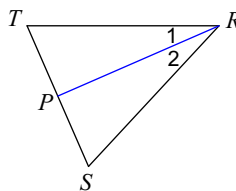
6

23) $m\angle 2 = 8x + 6$ and $m\angle 1 = 10x - 2$.
Find $m\angle 1$.



38°

24) Find $m\angle TRS$ if $m\angle 1 = 2x + 5$ and
 $m\angle TRS = 6x - 8$.



46°