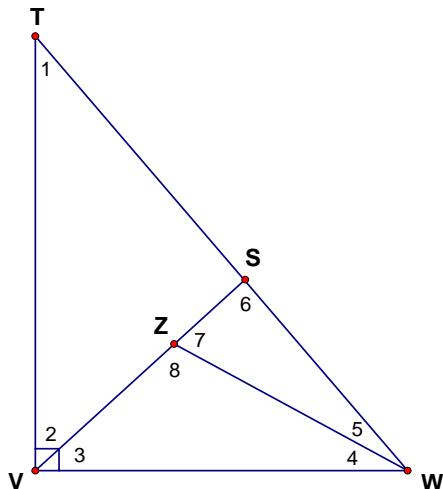


Homework 1-5 Angles

Refer to the figure below and answer the following questions.



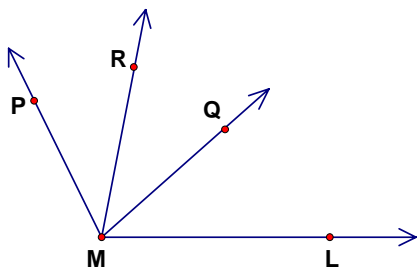
1. Give two other names for $\angle 7$.

2. Name a right angle. _____
3. Name an obtuse angle. _____
4. Does $\angle VTS$ appear to be obtuse, straight, right, or acute?

5. Name the vertex of $\angle 3$. _____
6. Name a point in the interior of $m\angle VWS$.

7. If \overline{VS} bisects $\angle TVW$, then find $m\angle 2$.

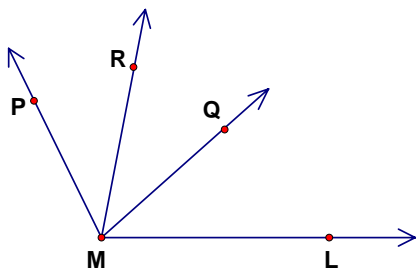
Refer to the figure below and answer the following questions.



8. If $m\angle RMQ = 2x$, $m\angle QML = 3x - 8$, and $m\angle RML = 82$, then find x .
 $x =$ _____

9. If $m\angle PMQ = 79^\circ$, $m\angle QML = 3x + 12$, and $m\angle PML = 125^\circ$, then find x and $m\angle QML$.
 $x =$ _____
 $m\angle QML =$ _____

10. If $m\angle RMQ = 3x - 23$, $m\angle QML = 4x + 6$, and $m\angle RML = 5x + 8$, then find x and $m\angle RML$.
 $x =$ _____
 $m\angle RML =$ _____



11. If \overline{MR} bisects $\angle PMQ$, $m\angle PMR = 2(x - 12)$, $m\angle QMR = x + 11$, then find x and $m\angle PMR$.
 $x =$ _____
 $m\angle PMR =$ _____

Homework 1-3 Angles

12. R is in the interior $\angle QUE$. If $m\angle QUE = 5x + 33$, $m\angle QUR = 14$, and $m\angle RUE = 7x - 10$, then find x and the measure of all three angles.
13. \overline{MN} bisects $\angle EMT$. If $m\angle EMN = 5x - 6$ and $m\angle NMT = x + 16$, then find x and the measure of all three angles.
14. H is in the interior of $\angle RTG$. If $m\angle RTH = 3x + 4$, $m\angle RTG = 12x - 15$ and $m\angle HTG = 2x + 2$, then is \overline{TH} an angle bisector? Explain your answer.