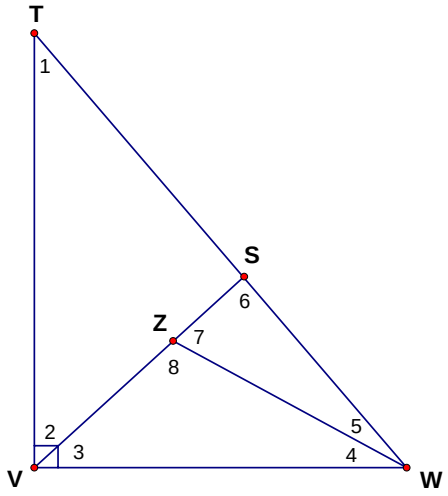
Name _____ Date_____ Period_____

Homework 1-4 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 $\angle 3$.

_____

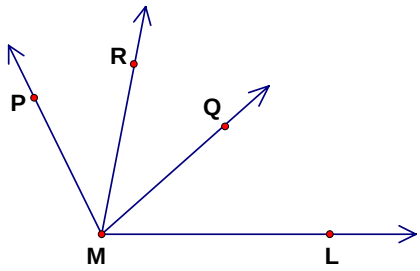
6. Name a point in the interior of $m\angle VWS$.

_____

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

_____

Refer to the figure below and answer the following questions.



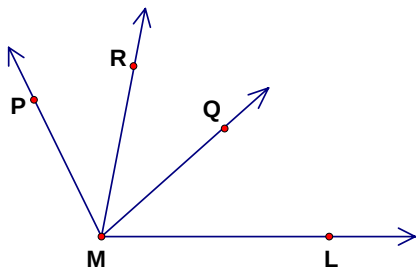
8. If $m\angle RMQ = 2x$, $m\angle QML = 3x - 8$, and $m\angle RML = 82$, then find x.

$x =$_____

9. If $m\angle PMQ = 79°$, $m\angle QML = 3x + 12$, and $m\angle PML = 125°$, 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 $\overrightarrow{MR}$ bisects $\angle PMQ$, $m\angle PMR = 2(x - 12)$, $m\angle QMR = x + 11$, then find x and $m\angle PMR$.

$x =$_____ $m\angle QMR =$_____

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Homework 1-4 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. $\overrightarrow{MN}$ 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 $\overrightarrow{TH}$ an angle bisector? Explain your answer.