23. $\angle RQT$ is a straight angle.
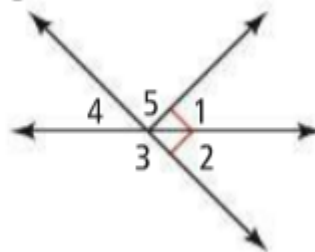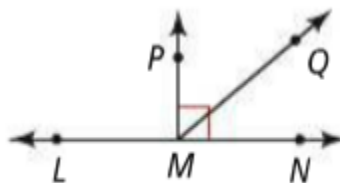What are $m\angle RQS$ and $m\angle TQS$?
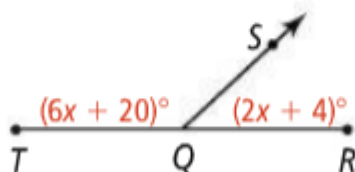
Use the diagram at the right. Is each statement true? Explain.

7. $\angle 1$ and $\angle 5$ are adjacent angles.

8. $\angle 3$ and $\angle 5$ are vertical angles.

9. $\angle 3$ and $\angle 4$ are complementary.

10. $\angle 1$ and $\angle 2$ are supplementary.

24. Name two pairs of angles that form a linear pair in the diagram at the right.

25. $\angle EFG$ and $\angle GFH$ are a linear pair, $m\angle EFG = 2n + 21$, and $m\angle GFH = 4n + 15$. What are $m\angle EFG$ and $m\angle GFH$?

32. The measure of one angle is 20 less than the measure of its complement.

37. Algebra $\angle RQS$ and $\angle TQS$ are a linear pair where $m\angle RQS = 2x + 4$ and $m\angle TQS = 6x + 20$.
a. Solve for x.
b. Find $m\angle RQS$ and $m\angle TQS$.
c. Show how you can check your answer.