

Name _____

Period _____

Mod 1 Extra Practice

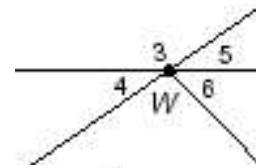
Show all your work.

1. To identify the ray beginning at A and extending through B , you would use the notation:

- (A) AB (B) \overrightarrow{AB} (C) \overline{AB} (D) \overline{BA}

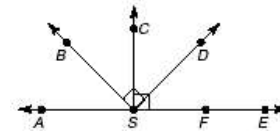
2. In the figure at right, $\angle 3$ and $\angle 5$ are:

- (A) congruent angles (B) vertical angles
(C) a linear pair (D) complementary angles



3. In the figure at right, \overrightarrow{SF} could also be called:

- (A) \overrightarrow{ES} (B) \overrightarrow{EA}
(C) \overrightarrow{SE} (D) all of the above



In Problems 4-5, find the length of \overline{AB} .

4. $A(5,-1)$ $B(2,3)$

5. $A(0,1)$ $B(-3,6)$

In Problems 6-7, find the midpoint of \overline{AB} .

6. $A(5,-1)$ $B(2,3)$

7. $A(0,1)$ $B(-3,6)$

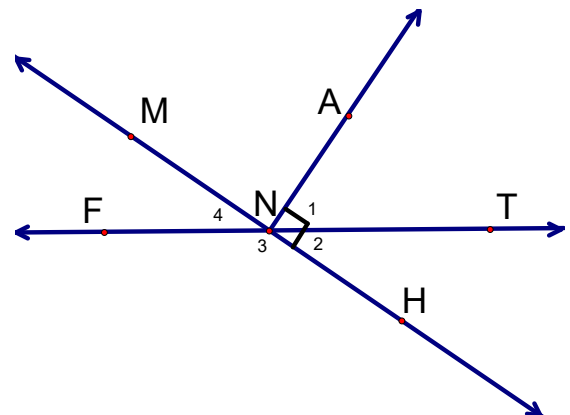
8. Assume M is the midpoint of \overline{PQ} . If $M(-1,8)$ and $P(2,6)$, find the coordinates of Q .

For Problems 9-11, refer to the figure at right.

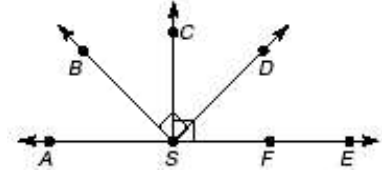
9. Name a pair of vertical angles.

10. Give a name for the relationship between $\angle 1$ and $\angle 2$.

11. Give another name for $\angle 3$.

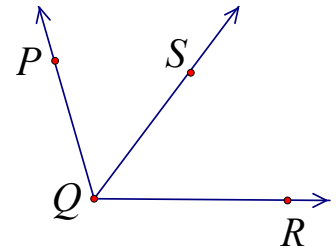


12. In the figure at right, name a point that is noncollinear with points A and F .

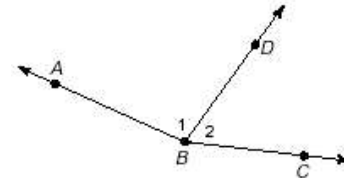


13. Assume point C is between points A and B . If $BC = 15$ and $AB = 91$, find the measure of segment \overline{AC} .

14. In the figure at right \overline{QS} bisects $\angle PQR$. If $m\angle PQR = 52^\circ$, find $m\angle PQS$ and $m\angle SQR$.



15. In the figure at right, $m\angle ABC = 75$, $m\angle 1 = 25 - x$, and $m\angle 2 = 5x + 20$. Find x and $m\angle 2$.

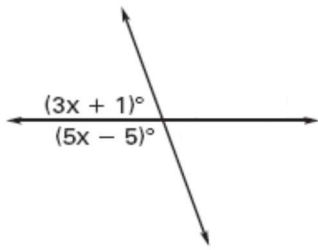


16. F is the midpoint of \overline{EG} . If $EF = 2x + 23$ and $FG = 6x - 5$, find EG .

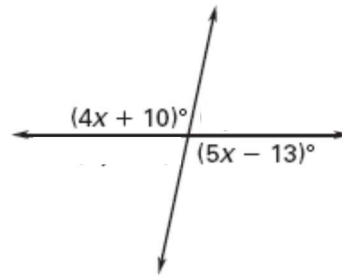
17. Y is between X and Z . If $XY = 12t - 11$, $YZ = -5t + 10$, and $XZ = 34$, find t .

For Problems 18-20, find x .

18.



19.



20.

