

Student: _____
 Date: _____
 Time: _____

Instructor: courtney trabue
 Course: GMC LSS Mathematics
 Book: Martin-Gay: Developmental Mathematics

Assignment: MAT 097 Lines and Angles (6.1)

1. Identify the figure as a line, a ray, a line segment, or an angle. Then, name the figure using the given points.



Choose the correct description below.

- A. Ray B. Line segment
 C. Angle D. Line

Choose the correct name below.

- A. $\angle YZ$ B. \overleftrightarrow{YZ}
 C. \overrightarrow{YZ} D. \overline{YZ}

2. Identify the figure as a line, a ray, a line segment, or an angle. Then, name the figure using the given points.



Choose the correct description below.

- A. Angle B. Ray
 C. Line segment D. Line

Choose the correct name below.

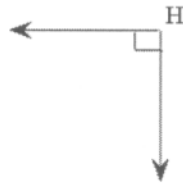
- A. \overline{XY} B. \overleftrightarrow{XY}
 C. $\angle XY$ D. \overrightarrow{XY}

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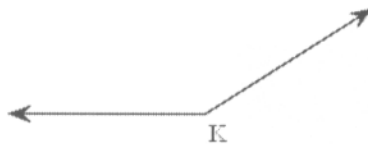
3. Classify the angle as acute, right, obtuse, or straight.



Choose the correct answer below.

- A. obtuse
 B. acute
 C. right
 D. straight

4. Classify the angle as acute, right, obtuse, or straight.



Choose the correct answer below.

- A. obtuse
 B. straight
 C. right
 D. acute

5. Find the measure of the complement of a 11° angle.

The measure of the complement of a 11° angle is $^\circ$.
(Simplify your answer. Type an integer or a decimal.)

6. Find the measure of the supplement of a 26° angle.

The measure of the supplement of a 26° angle is $^\circ$.
(Simplify your answer. Type an integer or a decimal.)

7. Find the measure of the complement of a 82° angle.

The measure of the complement of a 82° angle is $^\circ$.
(Simplify your answer. Type an integer or a decimal.)

8. Find the measure of the supplement of a 126° angle.

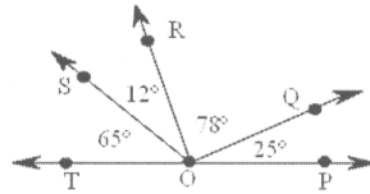
The measure of the supplement of a 126° angle is $^\circ$.
(Simplify your answer. Type an integer or a decimal.)

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9. Identify each pair of complementary angles.



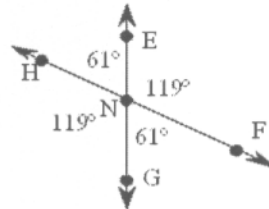
Which angle is complementary to $\angle TOS$?

- A. $\angle SOR$ B. $\angle TOP$ C. $\angle ROQ$ D. $\angle QOP$

Which angle is complementary to $\angle ROQ$?

- A. $\angle SOT$ B. $\angle SOR$ C. $\angle QOP$ D. $\angle TOP$

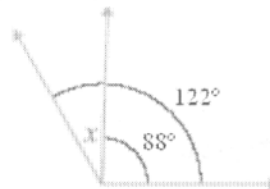
10. Identify each pair of supplementary angles.



Which answer choice correctly lists all four pairs of supplementary angles?

- A. $\angle HNG$ and $\angle ENF$, $\angle HNF$ and $\angle ENF$, $\angle GNF$ and $\angle HNE$, $\angle HNE$ and $\angle HNG$
 B. $\angle HNG$ and $\angle GNF$, $\angle ENF$ and $\angle GNF$, $\angle HNE$ and $\angle ENF$, $\angle HNE$ and $\angle HNG$
 C. $\angle HNE$ and $\angle HNG$, $\angle HNF$ and $\angle ENF$, $\angle GNF$ and $\angle HNE$, $\angle ENF$ and $\angle HNG$

11. Find the measure of $\angle x$ in the figure.



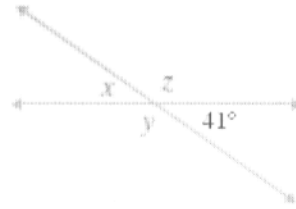
$\angle x = \square^\circ$

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12. Find the measures of angles x , y , and z in the figure.



$$\angle x = \square^\circ$$

$$\angle y = \square^\circ$$

$$\angle z = \square^\circ$$

13. Find the measures of angles x , y , and z in the figure.



$$\angle y = \square^\circ$$

$$\angle x = \square^\circ$$

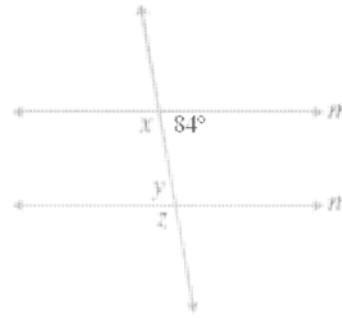
$$\angle z = \square^\circ$$

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14. Find the measures of angles x , y , and z in the figure. $m \parallel n$.

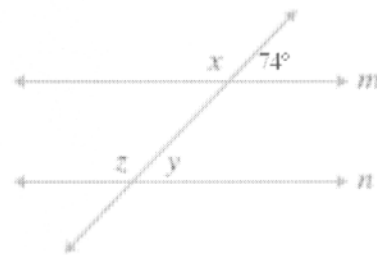


$\angle x = \square^\circ$

$\angle z = \square^\circ$

$\angle y = \square^\circ$

15. Find the measures of angles x , y , and z in the figure. $m \parallel n$.

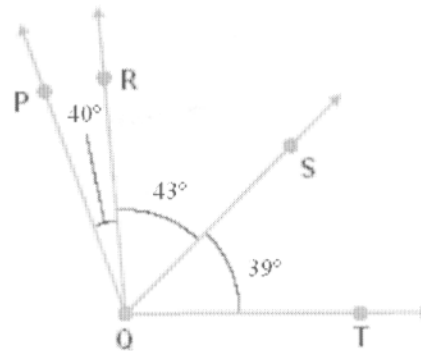


$\angle x = \square^\circ$

$\angle z = \square^\circ$

$\angle y = \square^\circ$

16. Find the measure of $\angle PQR$ in the figure.



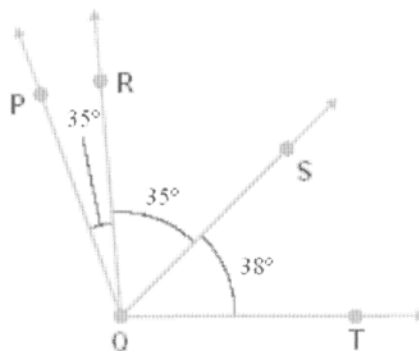
$\angle PQR = \square^\circ$

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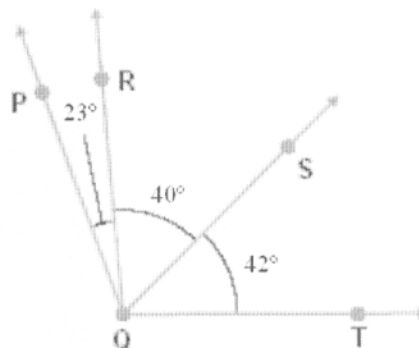
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17. Find the measure of $\angle RQS$ in the figure.



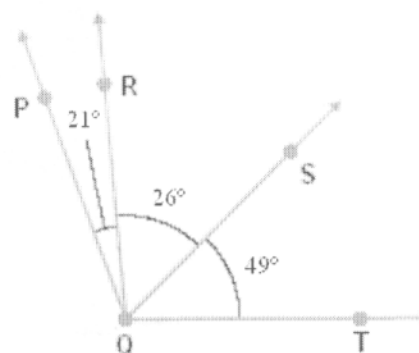
$$\angle RQS = \boxed{}^\circ$$

18. Find the measure of $\angle SQP$ in the figure.



$$\angle SQP = \boxed{}^\circ$$

19. Find the measure of $\angle RQT$ in the figure.



$$\angle RQT = \boxed{}^\circ$$