

Name Key
Mrs. Roubos

Date _____
8R Period _____

Homework

1) What is the definition of the mathematical term "supplementary angles"?

- A) Two angles whose difference equals 90°.
- B) Two angles whose sum equals 90°.
- C) Two angles whose difference equals 180°.
- D) Two angles whose sum equals 180°.

2) What is the definition of the mathematical term "complementary angles"?

- A) Two angles whose sum equals 90°.
- B) Two angles whose sum equals 180°.
- C) Two angles whose difference equals 180°.
- D) Two angles whose difference equals 90°.

3) Find the supplement of a 120° angle.

$$\begin{array}{r} +180 \\ 180 \\ -120 \\ \hline 60 \end{array} \quad \boxed{60^\circ}$$

4) Find the complement of a 45° angle.

$$\begin{array}{r} +90 \\ 90 \\ -45 \\ \hline 45 \end{array} \quad \boxed{45^\circ}$$

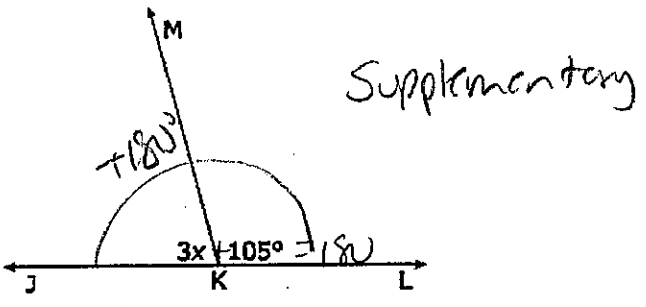
5) Find the supplement of a 72° angle.

$$\begin{array}{r} +180 \\ 180 \\ -72 \\ \hline 108 \end{array} \quad \boxed{108^\circ}$$

6) Find the complement of a 12° angle.

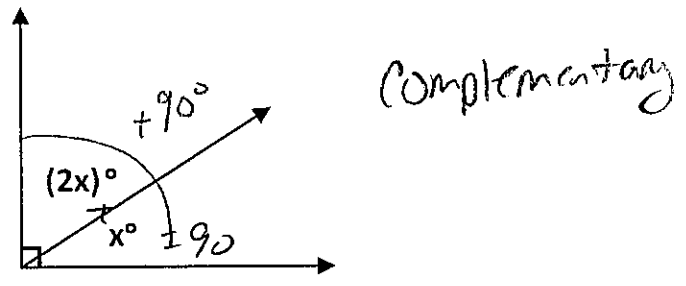
$$\begin{array}{r} +90 \\ 90 \\ -12 \\ \hline 78 \end{array} \quad \boxed{78^\circ}$$

7) Solve for x, given the accompanying diagram.



$$\begin{array}{r} 3x + 105 = 180 \\ -105 \quad -105 \\ \hline 3x = 75 \\ \frac{3x}{3} = \frac{75}{3} \\ \boxed{x = 25} \end{array}$$

8) Solve for x, given the accompanying diagram.



$$\begin{array}{r} 2x + x = 90 \\ 3x = 90 \\ \frac{3x}{3} = \frac{90}{3} \\ \boxed{x = 30} \end{array}$$

9) What are a pair of adjacent angles in the diagram shown?

- A) 2 and 4
- B) 2 and 3
- C) 1 and 3

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