

Name _____

Date _____

Angles

Introduction to Angles – Part 1 Independent Practice

1. What is the difference between complementary and supplementary angles?

2. Suppose $m\angle TOK = 49^\circ$.

Part A: What is the measure of the angle complement of $\angle TOK$?

Part B: What is the measure of the angle supplement of $\angle TOK$?

3. Suppose $m\angle YES = 113^\circ$.

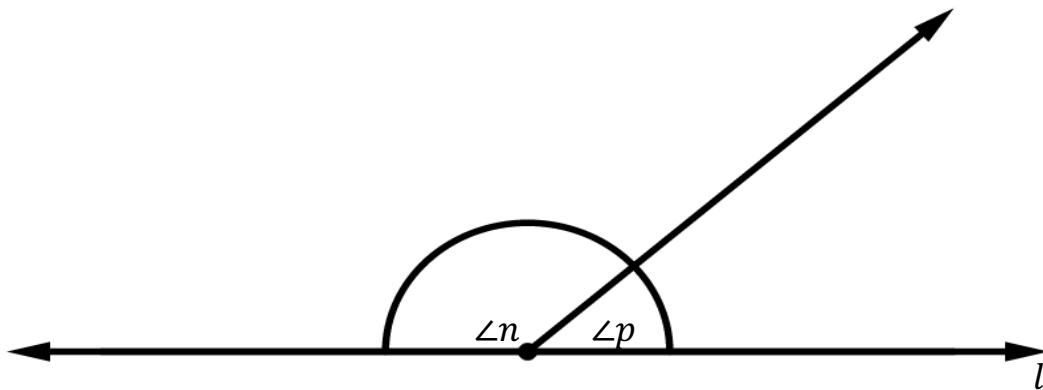
Part A: What is the measure of the angle complement of $\angle YES$?

Part B: What is the measure of the angle supplement of $\angle YES$?

4. Angle Z is 21 degrees larger than twice the measure of angle T . If $\angle Z$ and $\angle T$ are supplementary, what is the measure of angle T ?



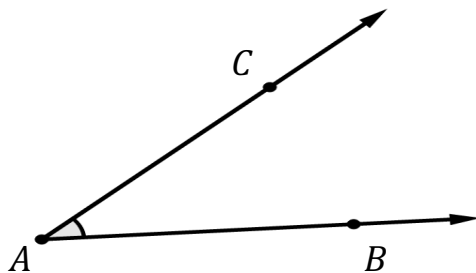
5. On line l , $m\angle p = 21x + 25$ and $m\angle n = \frac{675x - 27}{3}$.



Part A: Determine the value of x .

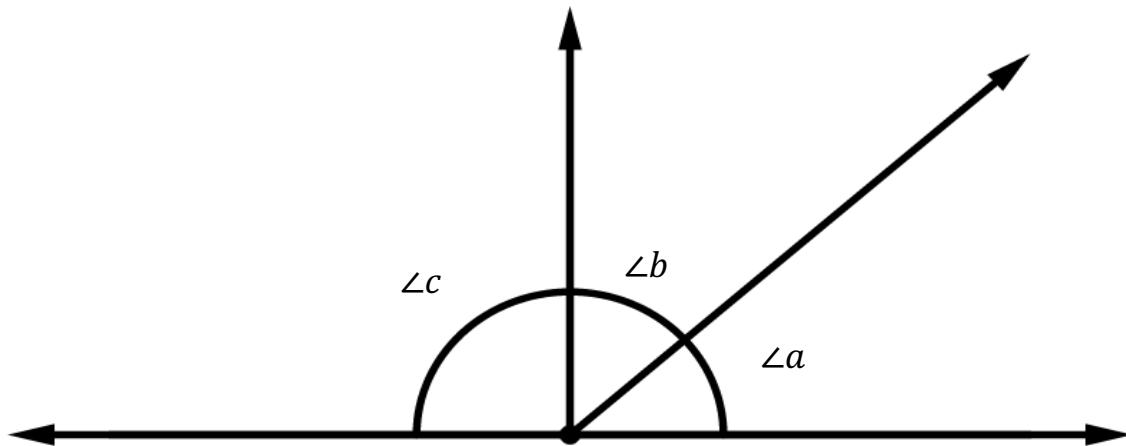
Part B: Determine the measure of $\angle p$ and $\angle n$ in degrees.

6. Consider the following figure.



The measure of the supplement of $\angle ABC$ is $(18x + 22)$ degrees. The measure of the complement of $\angle ABC$ is $(9x - 5)$ degrees. Determine $m\angle ABC$.

7. In the figure below, $m\angle a = 3x + 5$, $m\angle b = 5x - 18$, and $m\angle c = 7x - 2$.



Part A: Are $\angle a$ and $\angle b$ complementary? Justify your answer.

Part B: Determine $m\angle a$, $m\angle b$, and $m\angle c$.