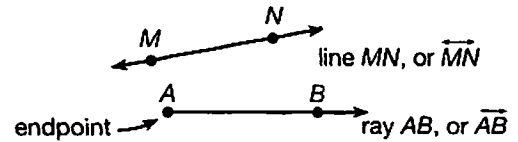


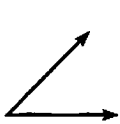
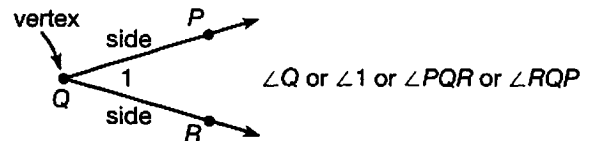


SKILL 1: Lines and Angles

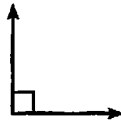
A **line** is straight and extends without end in two directions. A **ray** is straight but extends without end in only one direction. The point where a ray starts is its **endpoint**.



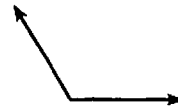
Two rays with the same endpoint form an **angle**. The rays are the **sides** of the angle. The shared endpoint is the **vertex** of the angle.



An acute angle has a measure less than 90° .



A right angle has a measure of exactly 90° .

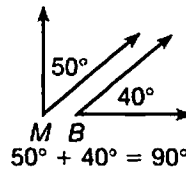


An obtuse angle has a measure greater than 90° and less than 180° .



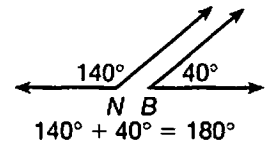
A straight angle has a measure of exactly 180° .

Two angles are **complementary** if the sum of their measures is 90°



$\angle M$ is the complement of $\angle B$.

Two angles are **supplementary** if the sum of their measures is 180°



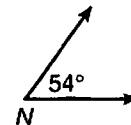
$\angle N$ is the supplement of $\angle B$.

Example

Find the measures of the complement and the supplement of $\angle N$.

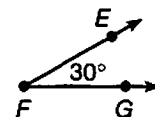
A complement of $\angle N$ measures $90^\circ - 54^\circ = 36^\circ$.

A supplement of $\angle N$ measures $180^\circ - 54^\circ = 126^\circ$.



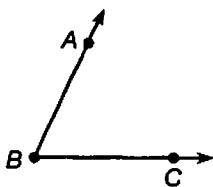
Guided Practice

1. What is the vertex of the angle at the right? _____
2. What are two names for the angle at the right?

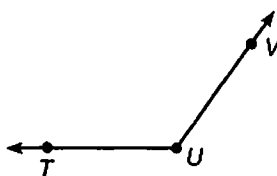


SKILL 1: Practice

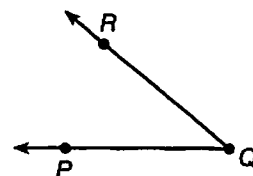
Name each angle.



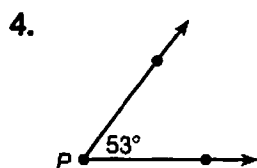
1. _____



2. _____

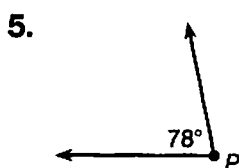


3. _____

Find the measure of the complement and the measure of the supplement of $\angle P$.

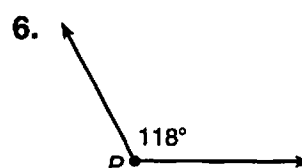
complement: _____

supplement: _____



complement: _____

supplement: _____



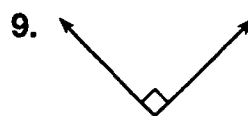
complement: _____

supplement: _____

Tell whether each angle appears to be acute, obtuse, right, or straight.



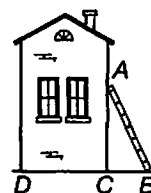






11. A ladder is leaning against the wall of a building.

a. What kind of angle is formed by the ground and the wall? _____

b. What angle is the supplement of $\angle ACB$? _____**TEST PREP**12. What kind of angle has a measure of 130° ?

A acute

C right

B obtuse

D straight

Skill 1

13. What is the measure of the supplement of a 70° angle?F 20° H 110° G 90° J 120°

Skill 1