

Lesson 1-6

Measuring Angles

Lesson Objectives

- ▼ Find the measures of angles
- ▼ Identify special angle pairs

NAEP 2005 Strand: Measurement

Topic: Measuring Physical Attributes

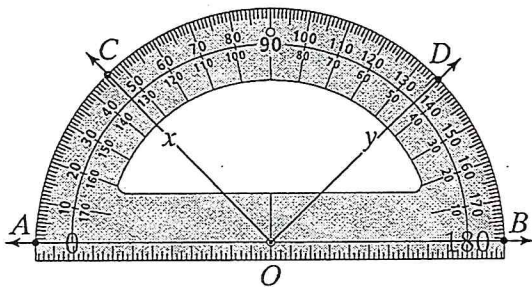
Local Standards: _____

Vocabulary and Key Concepts

Postulate 1-7: Protractor Postulate

Let \overrightarrow{OA} and \overrightarrow{OB} be opposite rays in a plane. \overrightarrow{OA} , \overrightarrow{OB} , and all the rays with endpoint O that can be drawn on one side of \overrightarrow{AB} can be paired with the real numbers from 0 to 180 so that

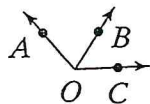
- \overrightarrow{OA} is paired with 0° and \overrightarrow{OB} is paired with 180° .
- If \overrightarrow{OC} is paired with x and \overrightarrow{OD} is paired with y , then $m\angle COD = |x - y|$.



Postulate 1-8: Angle Addition Postulate

If point B is in the interior of $\angle AOC$, then

$$m\angle AOB + m\angle BOC = m\angle AOC.$$



If $\angle AOC$ is a straight angle, then

$$m\angle AOB + m\angle BOC = 180^\circ.$$

