

**QUIZ 3**

*Plane Geometry*

Sections 1.8–1.10  
(–8 each)

**COMPLETION:** Write the correct answer in the blank at the left.

∠COD (or ∠DOC)

1. The vertical angle of ∠AOB is ?.

exterior

2. With respect to  $\triangle XYZ$ ,  $\angle WYZ$  is a(n) ? angle.

opposite interior

3.  $\angle X$  is called a(n) ? angle of the angle in number 2 above.

degree

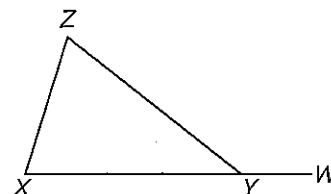
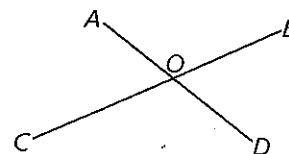
4. One  $360^{\text{th}}$  of a circle is equal to one ?.

acute

5. The supplement of an obtuse angle is a(n) ? angle.

a straight angle  
(or  $180^\circ$ )

6. The sum of the angles of a triangle is equal to ?.



**ANGLES:** Find the size of each angle.

$53^\circ$

7. Find the complement of a  $37^\circ$  angle.

$54^\circ$

8. Find the supplement of a  $126^\circ$  angle.

$22^\circ 28'$

9. Find the complement of a  $67^\circ 32'$  angle.

$81^\circ$  and  $99^\circ$

10. Two angles are supplementary and one angle is  $18^\circ$  greater than the other. Find the measure of each angle. Show your work.

$$\begin{aligned} \text{one angle} &= x \\ \text{other angle} &= x + 18^\circ \\ x + x + 18^\circ &= 180^\circ \\ 2x &= 162^\circ \\ x &= 81^\circ \\ x + 18^\circ &= 99^\circ \end{aligned}$$