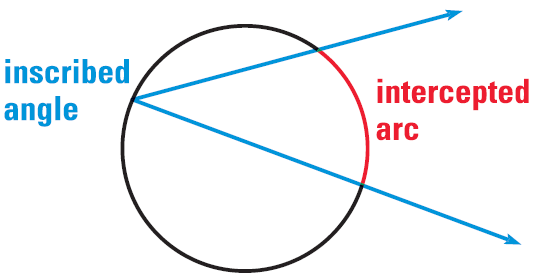
Geometry

10.4 Use Inscribed Angles and Polygons

\_\_\_\_\_\_\_\_\_

Intercepted arc

Inscribed angle



Inscribed Angle

inside

\_\_\_\_\_\_\_\_\_

edge

vertex

* An angle whose \_\_\_\_\_\_\_\_ is on the \_\_\_\_\_\_ of a circle and is \_\_\_\_\_\_\_\_ the circle.

Intercepted Arc

angle

in

* The arc of the circle that is \_\_\_\_\_ the \_\_\_\_\_\_\_\_.

intercepted

half

angle

inscribed

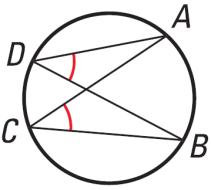
The measure of an \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ is \_\_\_\_\_\_ the measure of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ arc.

congruent

congruent

two

If \_\_\_\_\_\_\_ inscribed angles of the same or congruent circles intercept \_\_\_\_\_\_\_\_\_\_ arcs, then the angles are \_\_\_\_\_\_\_\_\_\_\_\_.

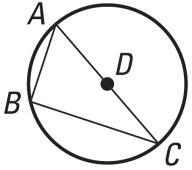


right

semicircle

If an inscribed angle of a circle intercepts a \_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the angle is a \_\_\_\_\_\_\_\_\_\_ angle

½ 180 (semicircle) = 90

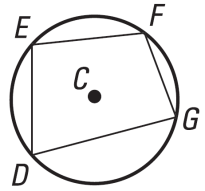


supplementary

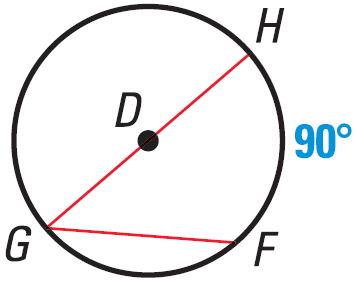
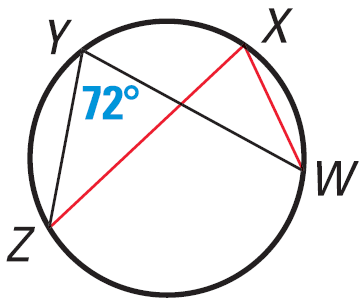
opposite

quadrilateral

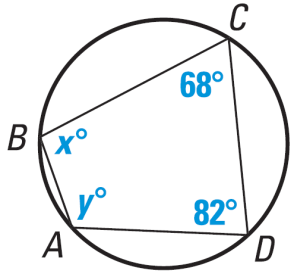
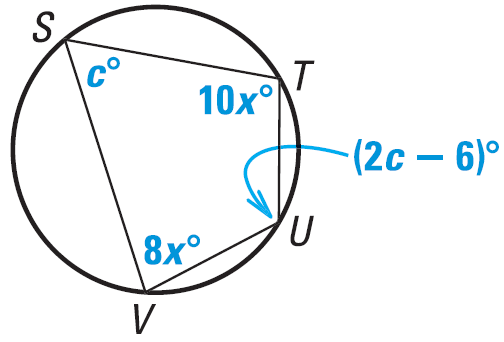
If a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is inscribed in a circle, then the \_\_\_\_\_\_\_\_\_ angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_.



Find the measure of the red angle.

Find the value of each variable.

Assignment: 676 #4-24 even, 28 36, 38, 40-46 all = 21