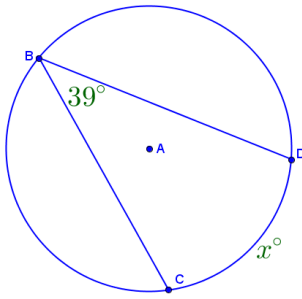# SM2 9.6: Inscribed and Circumscribed Angles

a) Find the measure of the indicated variable(s). b) Classify the angle listed.
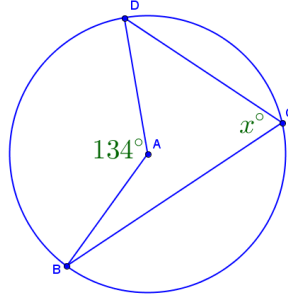
1)

$x =$

Classify $\angle DBC$:

Central   Inscribed
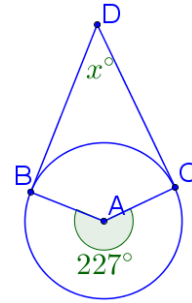
Circumscribed

2)

$x =$

Classify $\angle BAD$:

Central   Inscribed

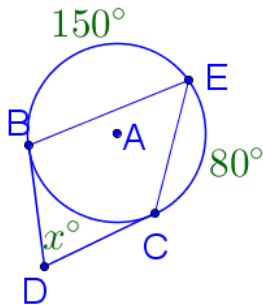Circumscribed

3)

$x =$

Classify $\angle BDC$:

Central   Inscribed
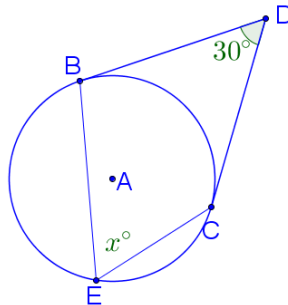
Circumscribed

4)

$x =$

Classify $\angle BDC$:

Central   Inscribed

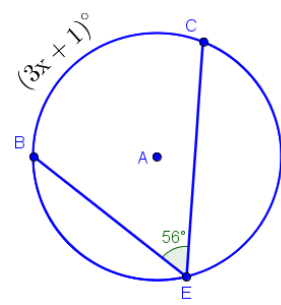Circumscribed

5)

$x =$

Classify $\angle BEC$:

Central   Inscribed
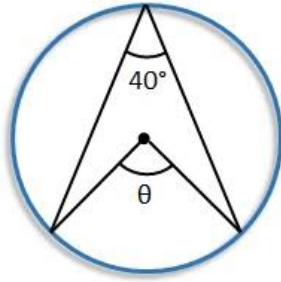
Circumscribed

6)

$x =$

Classify $\angle BEC$:

Central   Inscribed

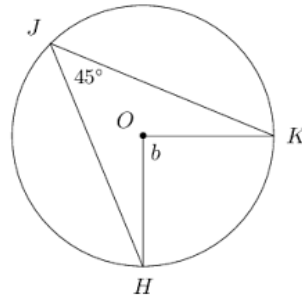Circumscribed

7)

$\theta =$

Classify $\angle\theta$:

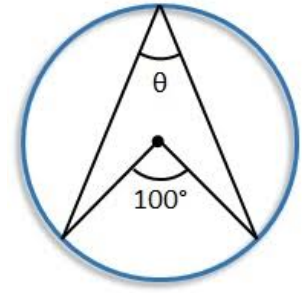Central   Inscribed

Circumscribed

8)

$b =$

Classify $\angle HOK$:
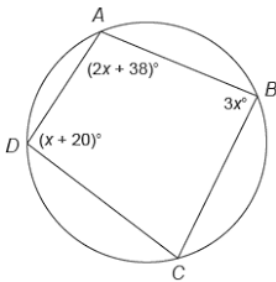
Central   Inscribed

Circumscribed

9)

$\theta =$

Classify $\angle\theta$:

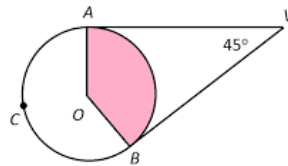Central   Inscribed

Circumscribed

10)

$(2x + 38)°$

$3x°$

$(x + 20)°$

$x =$

Classify $\angle DCB$:

Central   Inscribed
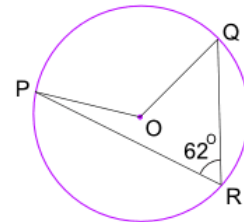
Circumscribed

11)

$45°$

Find the shaded Area of the Sector, given $r = 4$:

Classify $\angle AVB$:

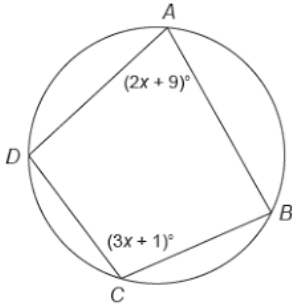Central   Inscribed

Circumscribed

12)

$62°$

$m\angle POQ =$

Classify $\angle POQ$:
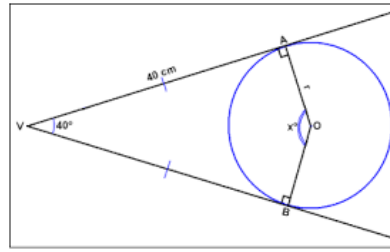
Central   Inscribed

Circumscribed

13)

A

$(2x + 9)°$

D

B

$(3x + 1)°$

C

$x =$

Classify ∠BAD:

Central   Inscribed

Circumscribed

14)

40 cm

$40°$ V

$x =$

Classify ∠AVB:

Central   Inscribed

Circumscribed

15)

M

$55°$

O

P

N

L

$m∠LPN =$

Classify ∠MNP:

Central   Inscribed

Circumscribed

16)

K

J $100°$

O d

H

$d =$

Classify ∠KJH:

Central   Inscribed

Circumscribed

17)

Z

$69°$

W

O

X

Y

$m∠WXY =$

Classify ∠WXY:

Central   Inscribed

Circumscribed

18)

A

$(x - 36)°$

$28°$ B

D $x°$

C

$x =$

$m∠DAB =$

$m∠DCB =$

Classify ∠BAD:

Central   Inscribed

Circumscribed

19) 76° B

A

45°

D   C

20)

C

x

O

80°

A   B

$m\angle ADB =$

$m\widehat{DC} =$

Classify $\angle DBC$:

Central   Inscribed

Circumscribed

$x =$

Classify $\angle ACB$:

Central   Inscribed

Circumscribed