Warm-up
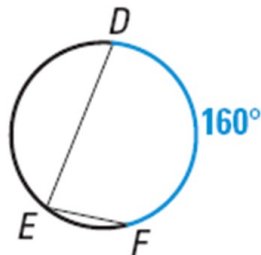
Find the measure of the inscribed angle or the intercepted arc.

1.

B

90°

C

A

2.

D

160°

E
F

3.

N

P

120°
M

K
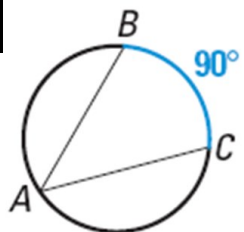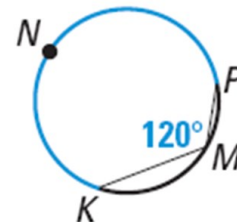
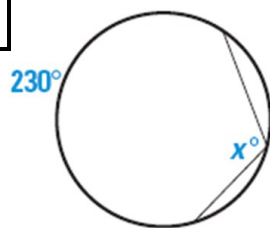## Find the value of each variable.

4.

230°

$x°$

5.

75°

$y°$

$z°$

6.

$y°$ $x°$

85°
80°
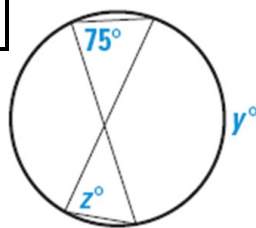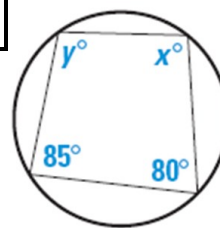
Notes   ## Finding Lengths of Segments

I.

a
c
b
P
d

II.

x
w
P
y
z

III.

t
P
y
z
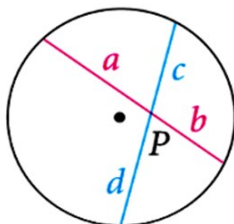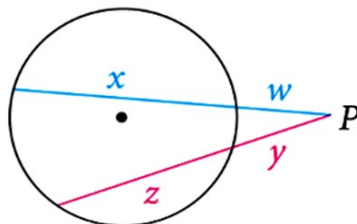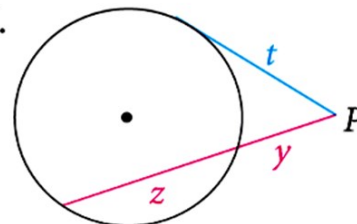
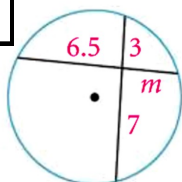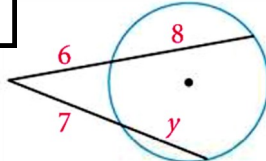**Examples:**

Find the value of the variable to the nearest tenth.

1.

6.5   3
m
7

2.
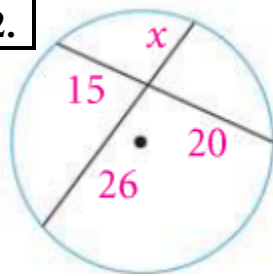
6
8
7
y

3.

z
8
16

4.

20
14
x
16

1.

20

8

x

6

2.

x

15

20

26

3.

20

11

13

c

4.

6

x

3

7

5.

x

5

y

7
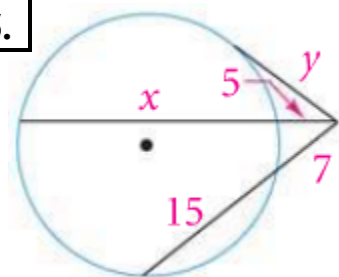
15

6.
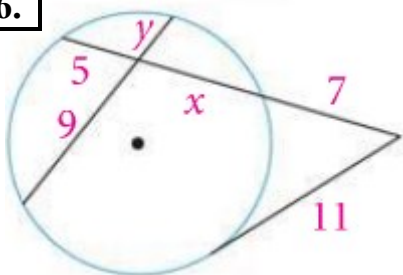
y
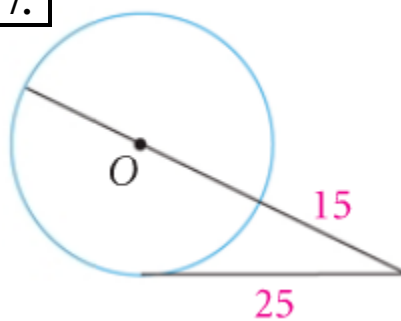
5
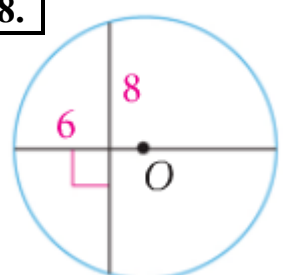
9

x

7

11

7.

O

15

25

8.

8

6

O
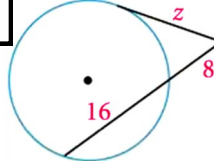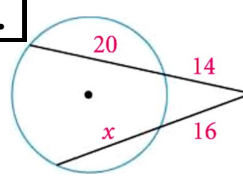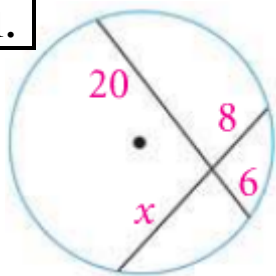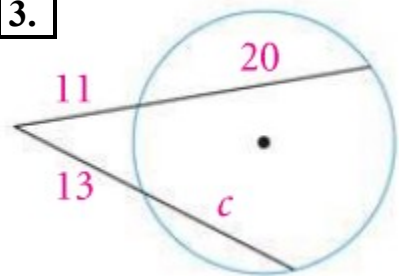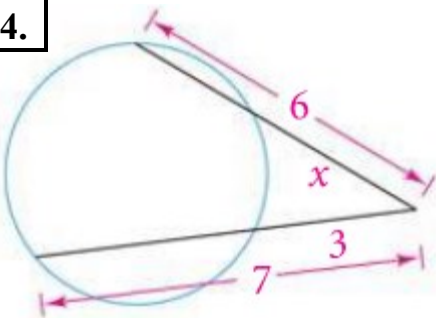
9. Find the value of *x* in the circle at the right.

(A) 25   (B) 20   (C) 11.25   (D) 7.5

15

22.5

x

30