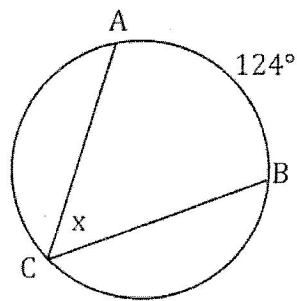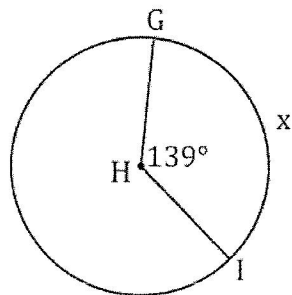For these... find the value of x. Show all your work...
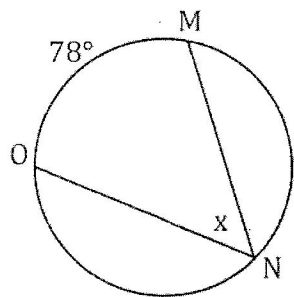
1.
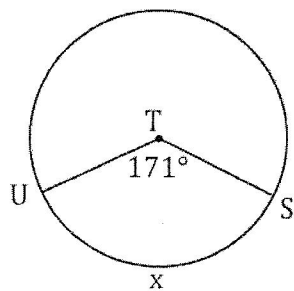
A
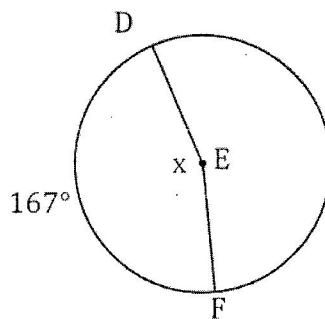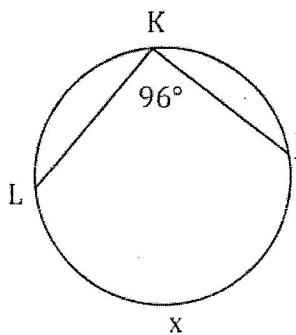124°
B
x
C

2.

D
x • E
167°
F

3.

G
x
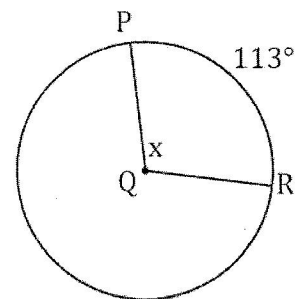H • 139°
I

4.

K
96°
L
J
x

5.

M
78°
O
x
N

6.

P
113°
x
Q
R

7.

T
171°
U
S
x

8.

W
V
Y
x
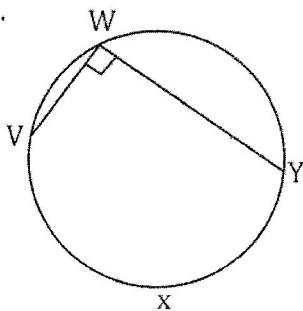
Bubble all the correct answers from above. Don't bubble incorrect answers.

○352° ○90° ○39° ○171° ○192° ○124° ○69.5° ○180° ○139° ○83.5° ○226° ○113° ○167° ○62°
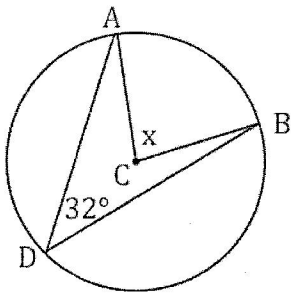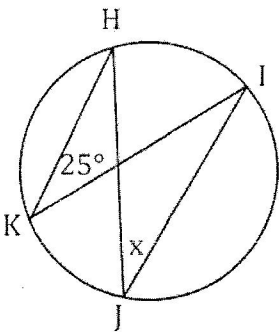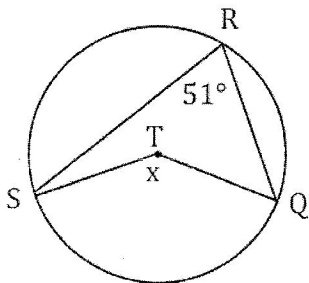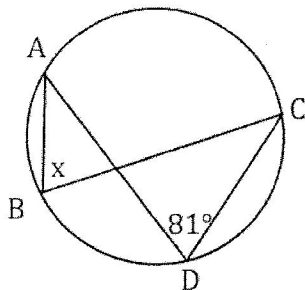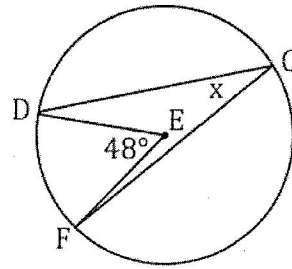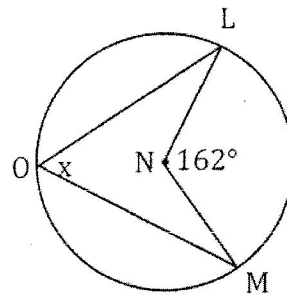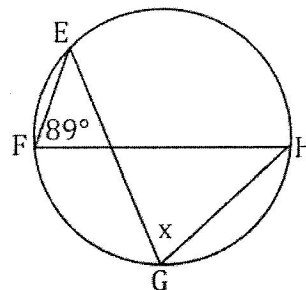
4/10/2013 11:35 AM

9.

10.

11.

12.

13.

14.

15.

16.

Bubble all the correct answers from above. Don't bubble incorrect answers.

○162° ○102° ○64° ○25° ○48° ○81° ○82° ○41° ○89° ○81° ○24° ○162° ○51° ○131°
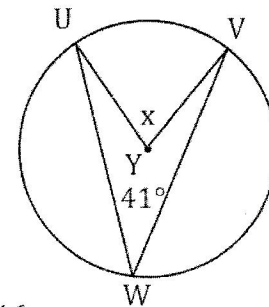
17. m$\widehat{IJK}$=190°

190°
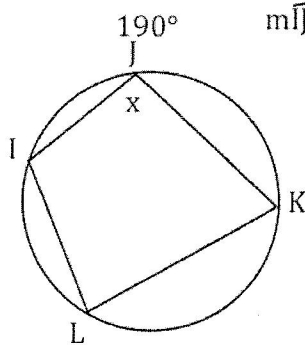
First find m$\widehat{KLI}$.
m$\widehat{IJK}$+m$\widehat{KLI}$=360°
  m$\widehat{IJK}$+m$\widehat{KLI}$=360°
  190°+m$\widehat{KLI}$=360°
  -190°   -190°
  m$\widehat{KLI}$=170°
Then find m∠J.
  m∠J=1/2m$\widehat{KLI}$
  x=1/2(170°)
  x=85°

18. m$\widehat{PMN}$=182°

182°

19. m$\widehat{RST}$=122°
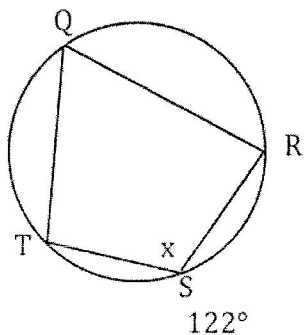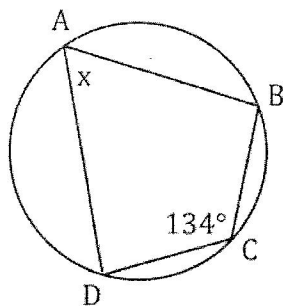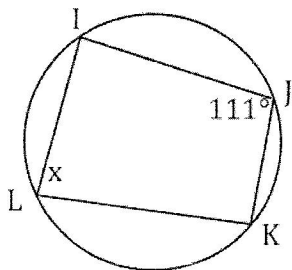
122°

20. First find m$\widehat{UYW}$.

68°

21.

134°

22.

123°
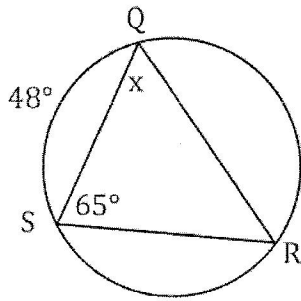
23.

111°

24.

141°
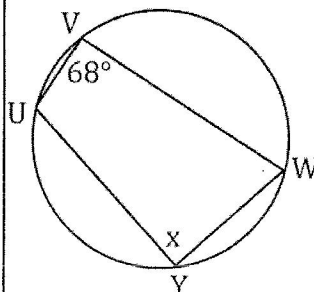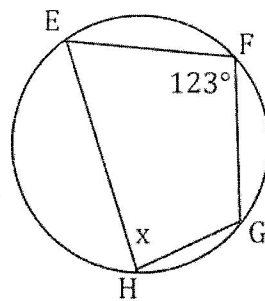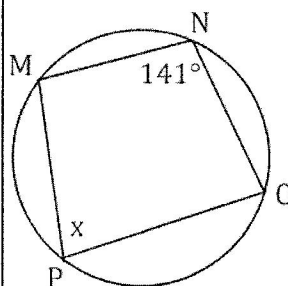
Bubble all the correct answers from above. Don't bubble incorrect answers.

○114° ○56° ○69° ○57° ○47° ○119° ○231° ○46° ○39° ○85° ○89° ○162° ○136° ○224°

4/10/2013 11:35 AM

25.

First find m∠R.
m∠R=1/2mQS
m∠R=1/2(48°)
m∠R=24°

Then find m∠Q.
Use the triangle sum theorem!
m∠Q+m∠R+m∠S=180°
X+24°+65°=180°
X+89°=180°
−89° −89°
X=91°

26.
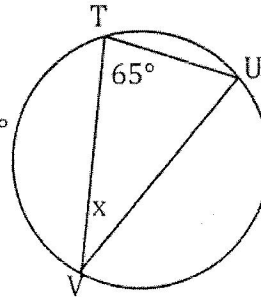
27.
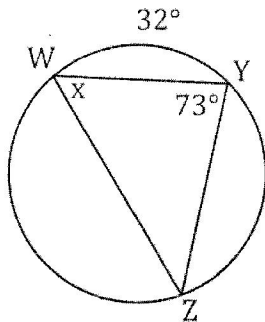
28.
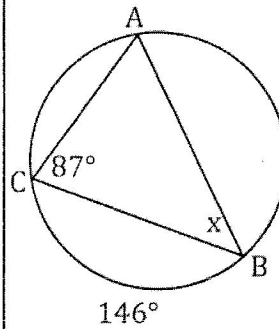
29.
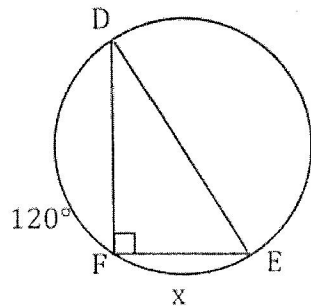
30.

31.

32.
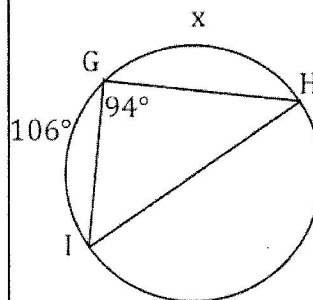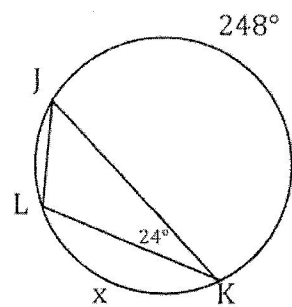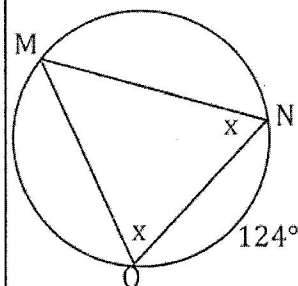
Bubble all the correct answers from above. Don't bubble incorrect answers.

◯87° ◯46° ◯18° ◯94° ◯91° ◯20° ◯44° ◯66° ◯64° ◯16° ◯60° ◯46° ◯91° ◯78°