Arcs and Central Angles
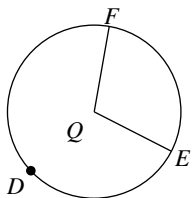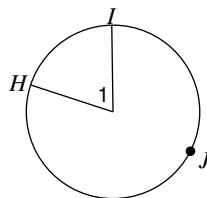
Name the arc made by the given angle.

1) ∠FQE

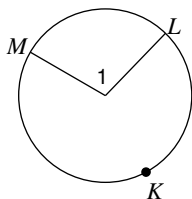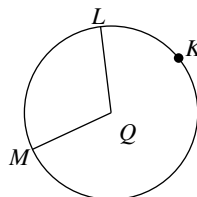2) ∠1

Name the central angle of the given arc.
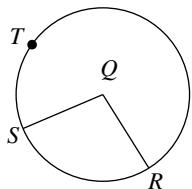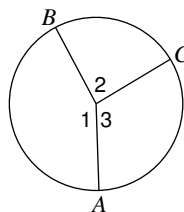
3) $\widehat{ML}$

4) $\widehat{ML}$

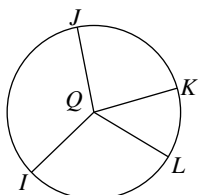**If an angle is given, name the arc it makes. If an arc is given, name its central angle.**
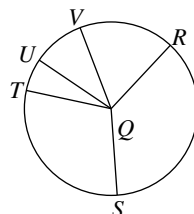
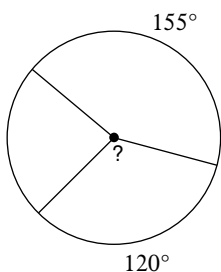5) $\widehat{RS}$

6) Major arc for ∠1
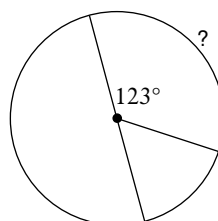
7) ∠KQL

8) $\widehat{SVT}$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
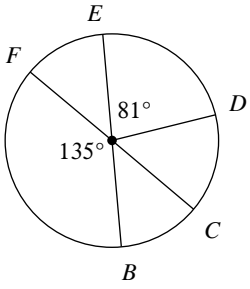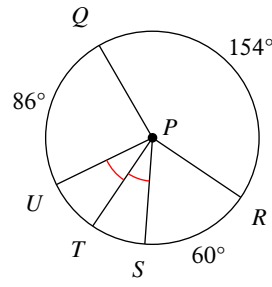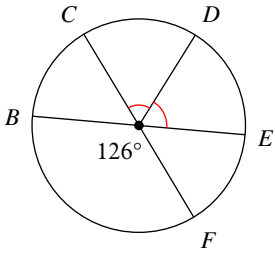
9)

155°

?

120°

10)

?

123°

11) $m\widehat{CFD}$
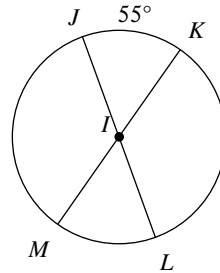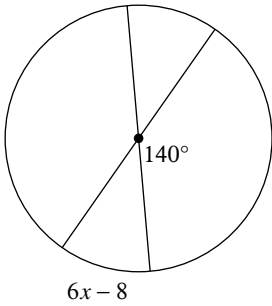

12) $m\angle SPQ$

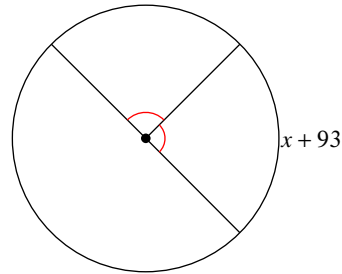13) $m\widehat{EFC}$

14) $m\angle MIJ$

Solve for x. Assume that lines which appear to be diameters are actual diameters.
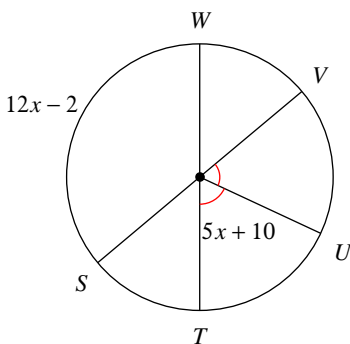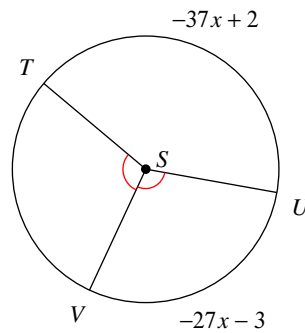
15)

16)

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
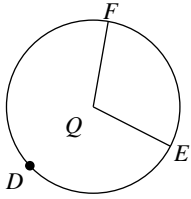
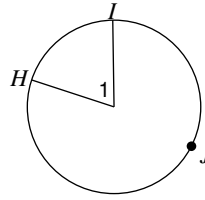17) $m\widehat{WV}$

18) $m\angle VST$

Name_____

Arcs and Central Angles

Date_____ Period____

Name the arc made by the given angle.

1) ∠FQE $\widehat{FE}$
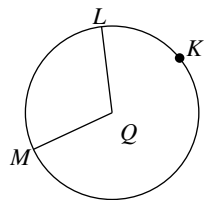
2) ∠1 $\widehat{HI}$

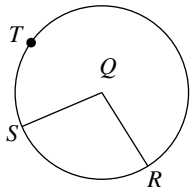**Name the central angle of the given arc.**

3) $\widehat{ML}$ ∠1

4) $\widehat{ML}$ ∠MQL

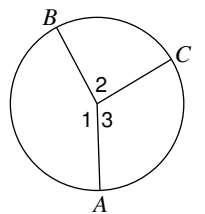**If an angle is given, name the arc it makes. If an arc is given, name its central angle.**
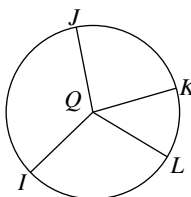
5) $\widehat{RS}$ ∠RQS
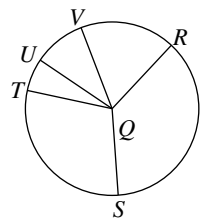
6) Major arc for ∠1 $\widehat{ACB}$

7) ∠KQL $\widehat{KL}$

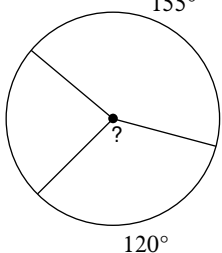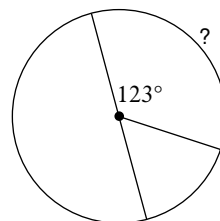8) $\widehat{SVT}$ ∠SQT

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
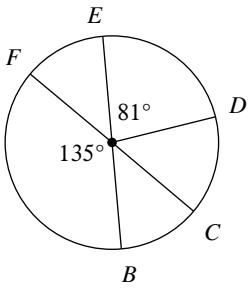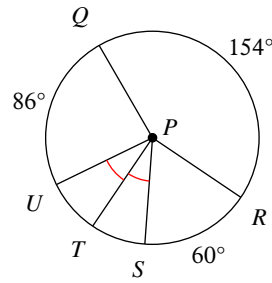
9)   120°

155°

?

120°

10)   123°

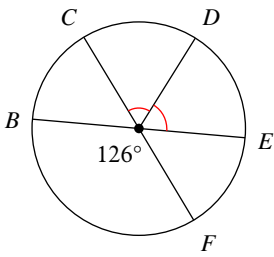?

123°

11) $m\widehat{CFD}$
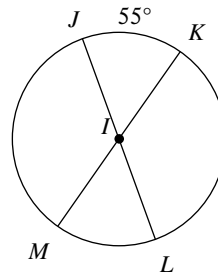

306°

12) $m\angle SPQ$
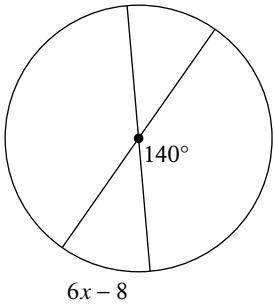

146°

13) $m\widehat{EFC}$

234°

14) $m\angle MIJ$

125°

Solve for x. Assume that lines which appear to be diameters are actual diameters.
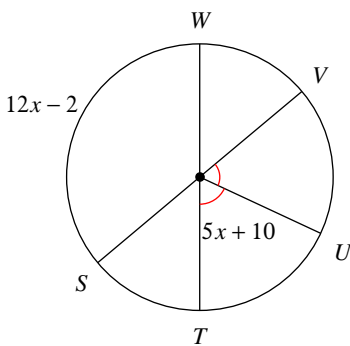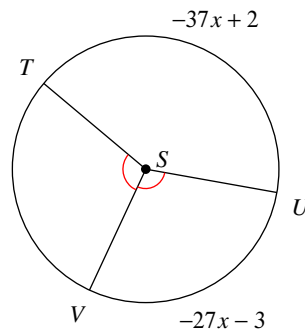
15)

$6x - 8$

8

16)

$x + 93$

−3

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

17) $m\widehat{WV}$

$12x - 2$

$5x + 10$

50°

18) $m\angle VST$

$-37x + 2$

$-27x - 3$

105°