LESSON 6.2

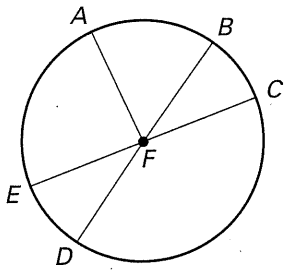
Exercise Set A

MM2G3b Understand and use properties of central, inscribed, and related angles.

MM2G3d Justify measurements and relationships in circles using geometric and algebraic properties.

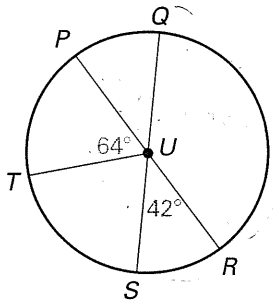
In ⊙*F*, determine whether the given arc is a *minor arc*, *major arc*, or *semicircle*.

1. $\overset{\frown}{AB}$
2. $\overset{\frown}{AE}$
3. $\overset{\frown}{EAC}$
4. $\overset{\frown}{ACD}$
5. $\overset{\frown}{CAD}$
6. $\overset{\frown}{DEB}$
7. $\overset{\frown}{BAE}$
8. $\overset{\frown}{DEC}$



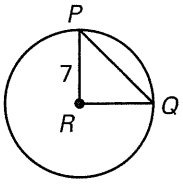
In the figure, $\overline{PR}$ and $\overline{QS}$ are diameters of ⊙*U*. Find the measure of the indicated arc.

9. $m\overset{\frown}{PQ}$
10. $m\overset{\frown}{ST}$
11. $m\overset{\frown}{TPS}$
12. $m\overset{\frown}{RT}$
13. $m\overset{\frown}{RQS}$
14. $m\overset{\frown}{QR}$
15. $m\overset{\frown}{PQS}$
16. $m\overset{\frown}{TQR}$
17. $m\overset{\frown}{PS}$
18. $m\overset{\frown}{PTR}$

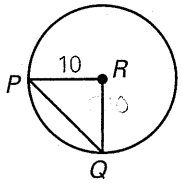


$\overset{\frown}{PQ}$ has a measure of 90° in ⊙*R*. Find the length of $\overline{PQ}$.

19.

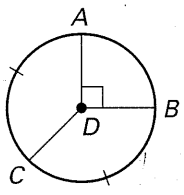


20.

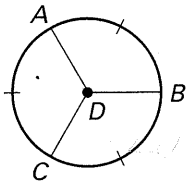


Find the indicated arc measure.

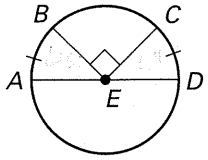
21. $m\overset{\frown}{AC}$



22. $m\overset{\frown}{ACB}$



23. $m\overset{\frown}{DAB}$



Two diameters of ⊙*T* are $\overline{PQ}$ and $\overline{RS}$. Find the given arc measure if $m\overset{\frown}{PR} = 35°$.

24. $m\overset{\frown}{PS}$
25. $m\overset{\frown}{PSR}$
26. $m\overset{\frown}{PRQ}$
27. $m\overset{\frown}{PRS}$

UNIT 6