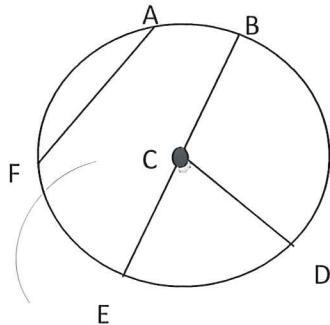


10.1 and 10.2 HW

10.1:

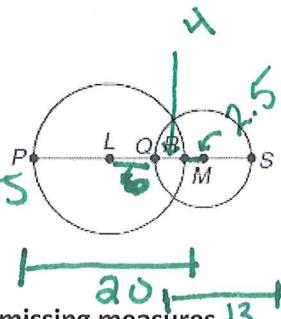
1.)

Name a chord: \overline{FA} or \overline{EB} Name a diameter: \overline{EB} Name a radius: \overline{CD} , \overline{EC} , \overline{BC}

The diameters of $\odot L$ and $\odot M$ are 20 and 13 units, respectively.
Find each measure if $QR = 4$.

2. $LQ = 6 \text{ units}$

3. $RM = 2.5 \text{ units}$



The radius, diameter or circumference of a circle is given. Find the exact missing measures.

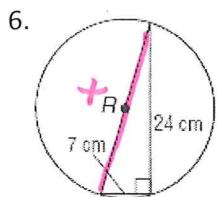
4. $r = 15 \text{ m}$

$d = 30 \text{ m}$, $C = 30\pi \text{ m}$

5. $C = 18\pi \text{ m}$

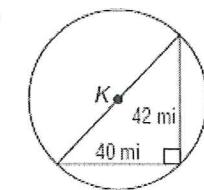
$d = 18 \text{ m}$, $r = 9 \text{ m}$

Find the exact circumference of each circle.



$$\begin{aligned} x^2 &= 24^2 + 7^2 \\ x^2 &= 625 \\ x &= 25 \\ d &= 25 \end{aligned}$$

$$C = 25\pi \text{ cm}$$



Herman purchased a sundial to use as the centerpiece for a garden. The diameter of the sundial is 9.5 inches.

8. Find the radius of the sundial. $r = 4.75 \text{ in}$

9. Find the circumference of the sundial to the nearest hundredth.

$$\begin{aligned} C &= 2\pi r \\ C &= 2\pi(4.75) \\ C &= 9.5\pi \text{ in} \end{aligned}$$

$$C \approx 29.85 \text{ in}$$

use π key
Not 3.14
plug in π ←

10.2:

ALGEBRA In $\odot R$, \overline{AC} and \overline{EB} are diameters. Find each measure.

1. $m\angle ERD$ 80° 28°

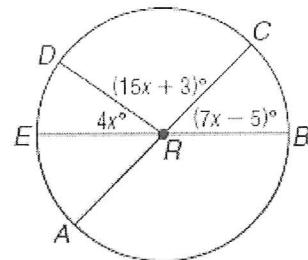
3. $m\angle BRC$ 44°

5. $m\angle ARE$ 100° 44°

2. $m\angle CRD$ 44° 108°

4. $m\angle ARB$ 100° 136°

6. $m\angle BRD$ 100° 152°



In $\odot A$, $m\angle PAU = 40$, $\angle PAU \cong \angle SAT$, and $\angle RAS \cong \angle TAU$. Find each measure.

7. $m\widehat{PQ}$ 90°

8. $m\widehat{PQR}$ 180°

9. $m\widehat{ST}$ 40°

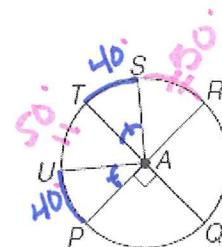
10. $m\widehat{RS}$ 50°

11. $m\widehat{RSU}$ 140°

12. $m\widehat{STP}$ 130°

13. $m\widehat{PQS}$ 230°

14. $m\widehat{PRU}$ 320°



The diameter of $\odot D$ is 18 units long. Find the length of each arc for the given angle measure.

15. \widehat{LM} if $m\angle LDM = 100$

5π units

16. \widehat{MN} if $m\angle MDN = 80$

4π units

17. \widehat{KL} if $m\angle KDL = 60$

3π units

18. \widehat{NJK} if $m\angle NDK = 120$

6π units

19. \widehat{KLM} if $m\angle KDM = 160$

8π units

20. \widehat{JK} if $m\angle JDK = 50$

2.5π units

