

Geo Circle Unit Study Guide

See 10.6, 10.7, 121-123, 12.5

1a) $\odot O$

• b) $\overline{OB}$, $\overline{OA}$, $\overline{OD}$

• c) $\overline{BD}$

• d) $\overline{CD}$, $\overline{BD}$

• e) $\angle AOB$, $\angle BOD$

f) $\angle BDC$

• g) $\widehat{BC}$, $\widehat{CD}$, $\widehat{AD}$, $\widehat{AC}$

• h) $\widehat{BCA}$, $\widehat{BDC}$, $\widehat{ADC}$, $\widehat{CAD}$

• i) $\widehat{BAD}$, $\widehat{BCD}$

2. $\widehat{ADB}$; $m\widehat{ADB} = 245^\circ$

3. arclength of $\widehat{XPY} = 6\pi m$

4. $A = \frac{189\pi}{8} \text{ in}^2$ $A \approx 74.2 \text{ in}^2$
(exact)

5. a) $A = (192\pi - 144\sqrt{3}) \text{ m}^2$

b) $A = (\frac{32\pi}{3} - 16\sqrt{3}) \text{ cm}^2$

c) $A = (25\pi - 50) \text{ ft}^2$

6a) 38°

b) 28°

c) 28°

d) 180°

e) 114°

f) 114°

g) 246°

h) 332°

7. $P = 52 \text{ m}$

8. $P = 44 \text{ cm}$

9. $P = 40 \text{ m}$

10. $x = 12$

11. $x = 12$ (need theorem for "work")

12. $x = 2\sqrt{33}$

13. $y = 100$

14. $x = 116$

15. $x = 120^\circ$

$x = 37$

$y = 88$

$z = 79$

16. $x = \sqrt{634}$

17. $x = 6$

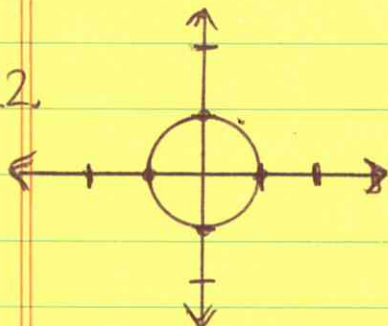
18. $x = \sqrt{91}$

19. $x^2 + (y-1)^2 = 4$

20. $(x+3)^2 + (y-2)^2 = 100$

21. $(x-1)^2 + (y+1)^2 = 4$

22.



23.

