12.2 p. 850 #17-29 odd

12.3 p859 #7-11 odd, 12, 21-25 odd, 29, 34

4/4

Tara D.
Prd. 8

I understood this lesson

17. P = 51.2 B = 130.2 L = 1484.8 cm² S = 1745.2 cm²

19. P = 18.85 B = 28.27 L = 282.8 mm² S = 339.3 mm²

21. P = 25.13 B = 50.27 L = 155.8 in.² S = 256.3 in.²

23. P = 7.29 B = 4.23 L = 34.04 42.5 m²

~~25.~~ $202 = 2\pi r + 2r^2$

$r^2 + 11 - 101$

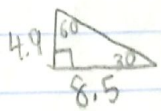
27. $256 = 16r + 2r^2$

$r + 8r - 128$

$r = 8$ 16 mm

7. P = 8 B = 4 L = 20 m² S = 24 m²

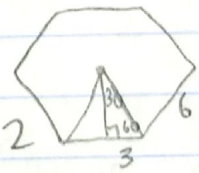
9. a = 4.9



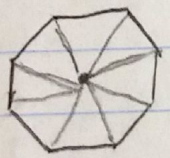
P = 51 B = 124.7 ℓ = 7 L = 178.5 S = 3032 c

11. a = 13.4 P = 107.2 B = 718.2 L = 964.8 in.² S = 1683 in²

12.



a = 5.2 P = 36 B = 93.6 L = 252 mm S = 345.6 m



21. faces - 9
vertices - 9
edges - 16

23. $20 = \frac{1}{2}(8)(\ell)$ 5mm

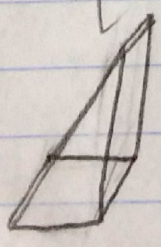
25. P = 56

$532 = \frac{1}{2}(56)\ell +$

$448 = 28\ell$

16 cm

29. square pyramid



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Comments:
Actually understood well.

Lesson 10.7

4/4

Brandon Bell
Retake-6th
4/22/15

Page 754; 7-21 odd, 26, 28, 29

7. $3 \cdot 6 = 6 \cdot x$

$\frac{30}{6} = \frac{6x}{6}$

$x = 5$

9. $x(x+10) = (x+7)(x+2)$

$x^2 + 10x = x^2 + 2x + 7x + 14$

$-x^2 \quad -9x \quad -x^2 \quad -9x$

$x = 14$

11. $2 \cdot 14 = x \cdot (6+x)$

$28 = 6x + x^2$

$-28 \quad -28$

$x^2 + 6x - 28$

$x \approx 3.1, -9.1$

13. $12^2 = x(x+12)$

$144 = x^2 + 12x$

$-144 \quad -144$

$x^2 + 12x - 144$

$x = \frac{-12 \pm \sqrt{720}}{2}$

$x = 7.4, -19.4$

15. $9 \cdot x = 6 \cdot 6$

$\frac{9x}{9} = \frac{36}{9}$

$x = 4$

$9 + 4 = 13$

17. $x(x+2x) = 8(x+12)$

$x^2 + 2x^2 = 8x + 96$

$-8x \quad -96$

$3x^2 - 8x - 96$

$\frac{8 \pm \sqrt{-8^2 - 4(3)(-96)}}{6}$

$x = \frac{8 \pm \sqrt{1216}}{6}$

When do we use the quadratic formula?

19. $4(10+a) = 10^2$

$40 + 4a = 100$

-40

$\frac{4a}{4} = \frac{60}{4}$

$a = 15$

$8 \cdot b = 6 \cdot 15$

$\frac{8b}{8} = \frac{90}{8}$

$b \approx 11.3$

21. $9(9+c) = 11(26)$

$81 + 9c = 286$

-81

$\frac{9c}{9} = \frac{205}{9}$

$c = 22.8$

$d^2 = 9(9+22.8)$

$\sqrt{d^2} = \sqrt{286.2}$

$d \approx 16.9$

26. Jun, since his equations are correct for a secant-secant circle.

28. $a^2 = b(b+c)$

$a^2 = b(b+b)$

$a^2 = 2b^2$

$a = b\sqrt{2}$

29. Sometimes, when the chords are perpendicular.

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Jenny Nunez
P. 6
4/22/15

comments: #26

4/4

10.7 p. 754 * 7-21 odd, 26, 28, 29

7. $6 \cdot x = 10 \cdot 3$

$6x = 30$

$x = 5$

9. $x(x+10) = (x+7)(x+2)$

$x^2 + 10x = x^2 + 7x + 2x + 14$

$10x = 9x + 14$

$x = 14$

11. $2(2+12) = x(x+6)$

$28 = x^2 + 6x$

$x^2 + 6x - 28 = 0$

$x = \frac{-6 \pm \sqrt{6^2 - 4(1)(-28)}}{2}$

$x = \frac{-6 \pm \sqrt{148}}{2}$

$x = \boxed{3.1}, -9.1$

13. $x(x+12) = 12^2$

$x^2 + 12x - 144 = 0$

$x = \frac{-12 \pm \sqrt{12^2 - 4(1)(-144)}}{2}$

$x = \frac{-12 \pm \sqrt{720}}{2}$

$x = \boxed{7.4}, -19.4$

15. $9 \cdot x = 6 \cdot 6$

$9x = 36$

$x = 4$

$9 + 4 = 13$ in.

17. $x(x+2x) = 8(8+x+4)$

$3x^2 = 64 + 32 + 8x$

$3x^2 = 96 + 8x$

$3x^2 - 8x - 96 = 0$

$x = \frac{-(-8) \pm \sqrt{-8^2 - 4(3)(-96)}}{6}$

$x = \frac{8 \pm \sqrt{1216}}{6}$

$x = \boxed{7.1}, -4.5$

19. $4(4+a+6) = 10^2$

$40 + 4a = 100$

$4a = 60$

$a = 15$

$8 \cdot b = 15(6)$

$8b = 90$

$b = 11.3$

21. $9(9+c) = 11(11+15)$

$81 + 9c = 286$

$9c = 205$

$c = 22.8$

$d^2 = 9(9+22.8)$

$d^2 = 286.2$

$d = 16.9$

26. Jun; the segments intersect outside of circle, so the correct equation involves the products of the secant and external secant segment.

28. $a^2 + b(b+b)$

$a^2 + 2b^2$

$a = \pm\sqrt{2b^2}$

$a = b\sqrt{2}$ not negative

29. Sometimes, when chords are perpendicular.

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All easy (repetitive) except 45- but I understood after seeing solution + drawing

Olivia Merrigan
Miss. Penick
16 May 15

12.6 p884 #11-27 odd, 29-37, 45

4/4

(11) $S = 4\pi r^2$
$4\pi(3)^2$
$36\pi = 113.1 cm^2$

(13) $S = \frac{1}{2} 4\pi r^2$
$\frac{1}{2} 4\pi (8.5)^2$
680.9

(15) $S = 4\pi r^2$
$\frac{32}{4\pi} = \frac{4\pi r^2}{4\pi}$
$\sqrt{\frac{32}{4\pi}} = \sqrt{r^2}$
$r = 1.28$

(17) $2r\pi = 15\pi$
$r = 7.5$
$\frac{1}{2}(4\pi 7.5^2)$
$530.1 mm^2$

(19) $V = \frac{4}{3}\pi r^3$
$\frac{4}{3}\pi 1^3$
$4.2 cm^3$

(21) $\frac{4}{3}\pi r^2 = V$
$\frac{1}{2}\cdot\frac{4}{3}\pi(10.9)^3$
$2712.3 cm^3$

(23) $\pi r 2 = 22$
$r = 11/\pi$
$V = \frac{4}{3}\pi(\frac{11}{\pi})^3$
$179.8 in^3$

(25) $r^2\pi = 35$
$r = \sqrt{35}/\pi$
$V = \frac{1}{2}\cdot\frac{4}{3}\pi\cdot\sqrt{35}/\pi^3$
$77.9 m^3$

(27) $S = 4\pi r^2$
$\frac{13,924\pi}{4\pi} = \frac{4\pi r^2}{4\pi}$
$\sqrt{3481} = \sqrt{r^2}$
$r = 59 ft$

(29) $S = \frac{1}{2}\cdot 4\pi r^2 + 5(2\cdot 4)\pi + 4^2\pi$
$32\pi + 40\pi + 16\pi$
$S = 88\pi = 276.5 in^2$
$V = \frac{1}{2}\cdot\frac{4}{3}\pi r^3 + r^2\pi h$
$\frac{2}{3}\pi 4^3 + 4^2\pi 5$
$385.4 in^3$

(30) $(L\square + B\square) + (S\smile) + (B\square - B\odot)$
$(40\cdot 13 + 10^2) + (2\pi 5^2) + (10^2 - 5^2\pi)$
$620 + 50\pi + 100 - 25\pi$
$720 + 25\pi = 798.5 cm^2$
$V = V\square - V\odot$ $V = (r^2\pi h) - (\frac{2}{3}\pi r^3)$
$V = (25\pi 13) - (\frac{250\pi}{3})$ $V = 1038.2 cm^3$

(31) a $S = \frac{1}{2}\cdot 4\pi 7^2$ $V = \frac{2}{3}\pi 7^3 + \frac{1}{3}\pi 7^2$
307.876 $1282.8 cm^3$
$S = \pi 7(13.04)$
$SA = 594.6 cm^2$

b $S = \pi r l + 2\pi r^2$ $(\pi 3.5\cdot 6.5) + \frac{2\pi}{3}3.5^2$
$S = 148.7 cm^2$
$V = \frac{1}{3}\pi r^2(h + 2r)$ $(\frac{1}{3}\pi)3.5^2(12.5$
$160.4 cm^3$

(32) $\frac{x}{65000} = \frac{30}{14}$
$x = 139,286 cm$

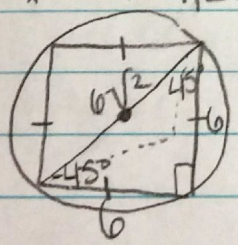
(33) $\overline{DC}$

(34) $\overline{SB}$

(35) $\overline{AB}$

(36) ℓ
$V\odot = \frac{4}{3}\pi r^3$
$\frac{4}{3}\pi(3\sqrt{3})^3$
$\frac{4}{3}\pi 3^3\sqrt{3}^3$
$\frac{4}{3}\pi(27)3\sqrt{3}$
$4\pi 27\sqrt{3}$
$587.7 in^3$

(37) OS

(45)


$V\square = 216$
$\sqrt[3]{x^3} = \sqrt[3]{216}$
$x = 6$

$d = (a^2 + b2 = c^2)$
$6^2 + 6\sqrt{2}^2 = x2$
$d = 6\sqrt{3}$
$r = 3\sqrt{3}$

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