

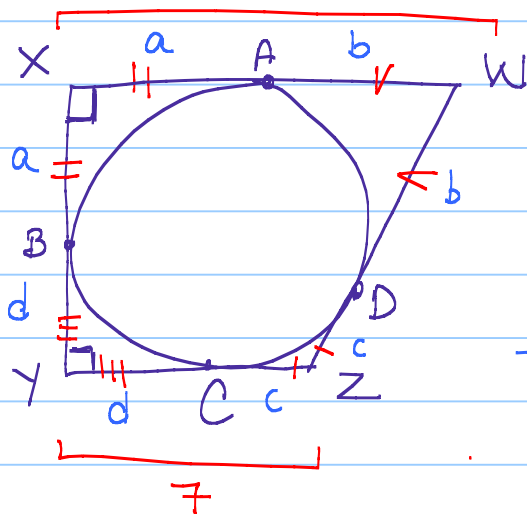
p490

10.7:1

Find perimeter of WXYZ

Note Title

2/1/2016

Thm 85 p460
tan-tan thm

$$a+b=16$$

$$c+d=7$$

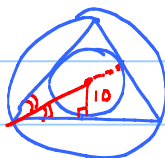
$$a+b+c+d=23$$

$$P: 2a+2b+2c+2d$$

$$2(a+b+c+d)$$

$$2(23) = \boxed{46}$$

10.7:19



30 60 90
x x $\sqrt{3}$ 2x

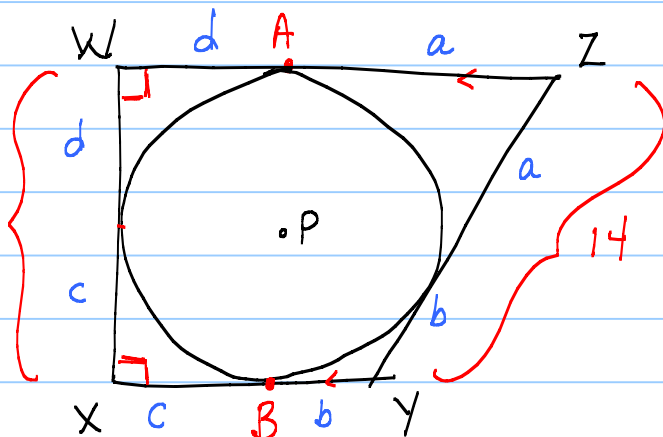
$$r_g = 20$$

b. $\frac{1}{2}$

10.7 25

p492

10



$$a+b=14$$

$$c+d=10$$

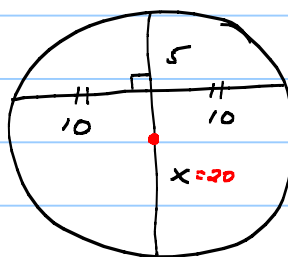
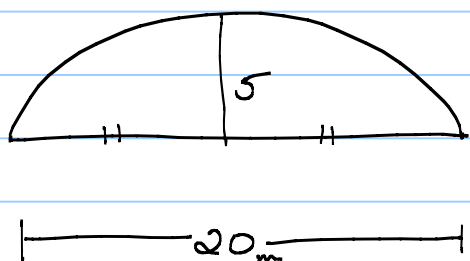
$$a+b+c+d=24$$

$$P_{WXYZ} = a+a+b+b+c+c+d+d$$

$$2(a+b+c+d) = 2(24) = 48$$

10.8 Power Theorems

14



$$5x = 10^2$$

$$5x = 100$$

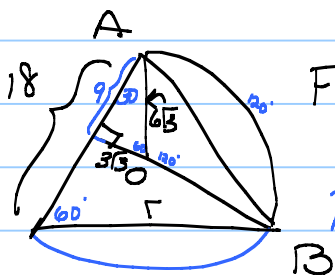
$$x = 20$$

$$\therefore d = 25$$

$$r = 25/2$$

10.9: 9 & 17

9. a



Find length of $\widehat{AB} = \frac{120}{360} \cdot \frac{4}{1} \cdot 12\sqrt{3} \pi$

$m \widehat{AB} = 120^\circ$

$AO = \text{radius}$

30	60	90
x	x/3	2x
	9	

$$\text{then } x/3 = 9$$

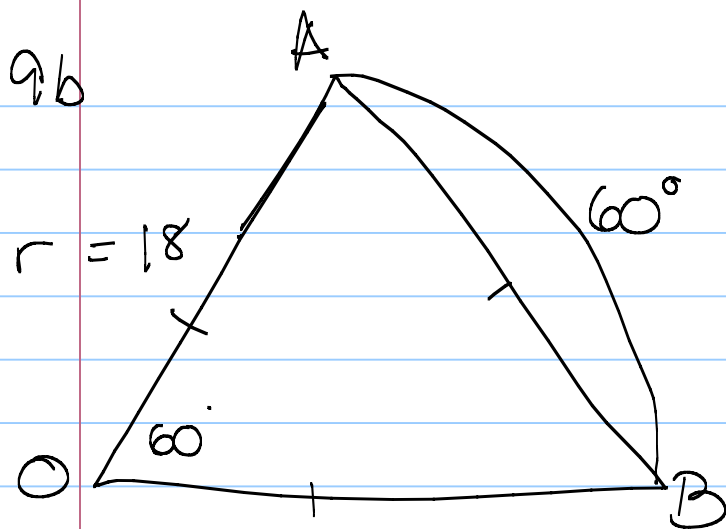
$$x = \frac{9 \cdot 3}{1} = 27$$

$$\therefore AO = 6\sqrt{3}$$

$$\text{then } d = 12\sqrt{3}$$

$$C = 12\sqrt{3} \cdot \pi$$

length of $\widehat{AB}$
 $4\pi\sqrt{3}$



$$\therefore m\widehat{AB} = 60^\circ$$

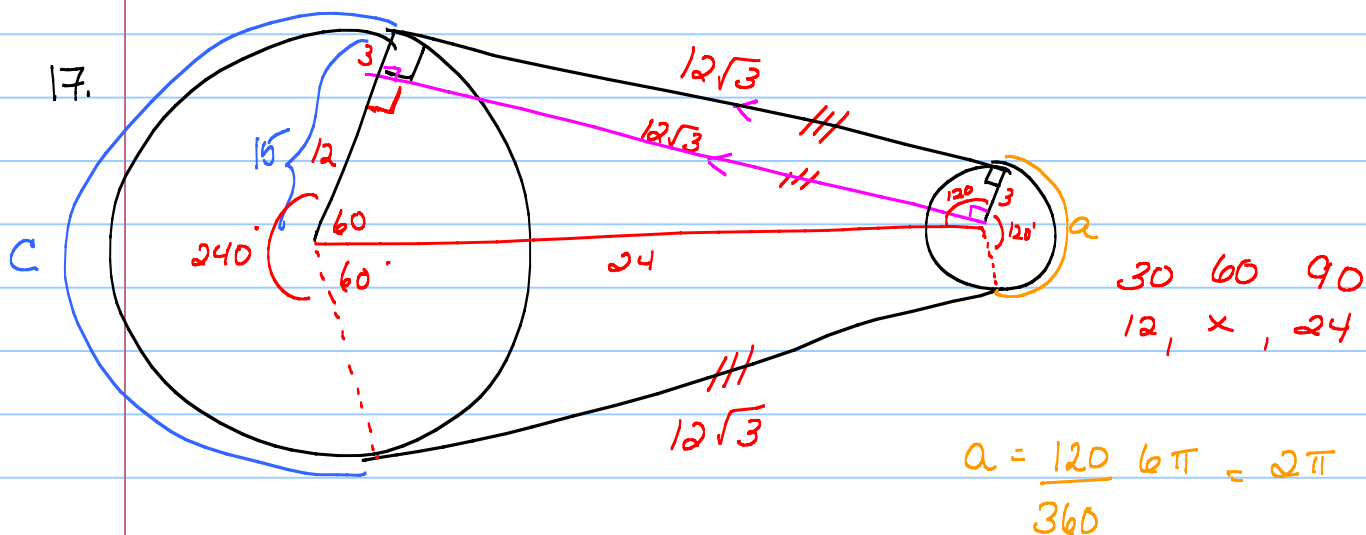
$$\frac{1}{6} \pi 36 = 6\pi$$

$$r = 18 \Rightarrow d = 36$$

9c

$$\boxed{9\pi}$$

17.



$$C = \frac{240}{360} 30\pi = 20\pi$$

$$C + 2b + a = \text{belt}$$

$$20\pi + 2(12\sqrt{3}) + 2\pi = \text{belt}$$

$$(22\pi + 24\sqrt{3}) \text{ cm}$$