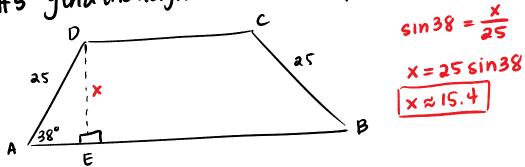
Quarter 3 Book Review

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Pgs. 426 - 427
#5, 7, 16
Pgs. 598 - 602
#4, 5bd, 7, 11ac, 12, 23, 27 – 29, 32
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pg 526

#5 Find the height of the isos. trapezoid



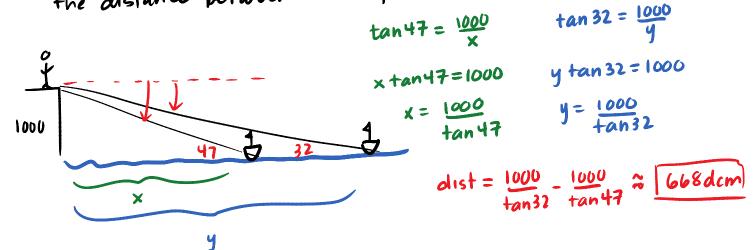
#7 Adepartment store escalator is 80 ft. long. If it rises 32 ft vertically, find the angle it makes with the floor.

$$\sin x = \frac{32}{80}$$

$$x = \sin^{-1}\left(\frac{32}{80}\right)$$

$$x \approx 23.6$$

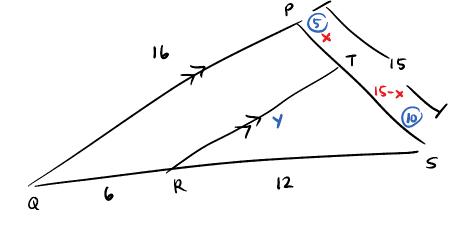
In observer on a cliff 1000 dm above sea level sights 2 ships due east. The angles of depression of the #16 Ships are 47° and 32°. Find to the nearest decimeter, the distance between the ships



$$\alpha \cdot PT = \frac{x}{6} = \frac{15 - x}{12}$$

$$12x = 90 - 6x$$

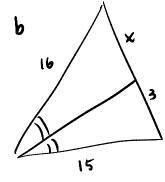
$$18x = 90$$



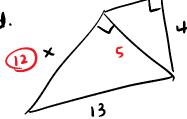
$$\frac{10}{9} = \frac{15}{16}$$

$$y = \frac{32}{3}$$

#5



$$X = \frac{16}{5} = 3\frac{1}{5}$$



Find #7

$$10^2 = 6.WY$$

 $100 = 6.WY$
 $100 = 50/3$

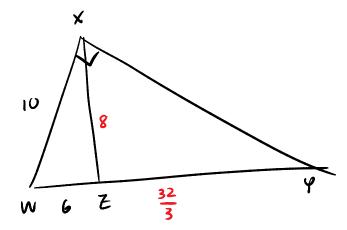
$$\Rightarrow 8^2 = 6 \cdot 4^3$$

$$64 = 64$$

$$47 = 32/3$$

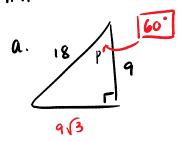
or
$$\frac{50}{3} - 6 = \frac{32}{3}$$

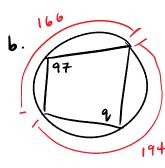




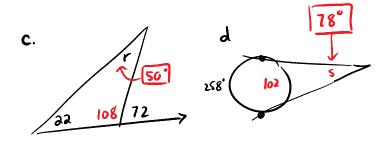
c. XZ

#11





$$q = \frac{166}{2} = 83^{\circ}$$



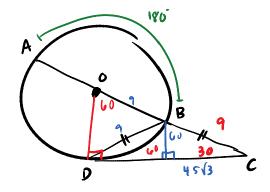
$$\frac{x}{8} = \frac{18}{x}$$

#23 find the length of a 45° arc of a circle whose radius is 8.

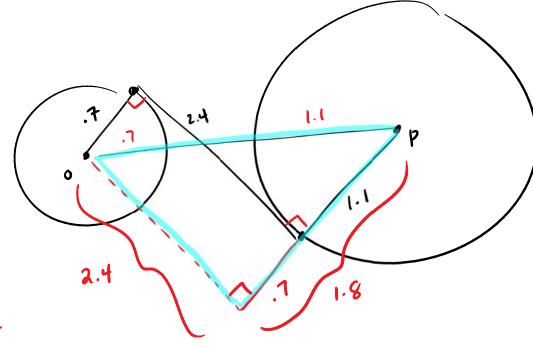
A.L. =
$$\frac{45}{360}$$
. 16TT
= $\frac{1}{8}$.16TT
= $2T$

#27 A woman walks 20m west, 100 m south, another 8 m west, and then 4 m north. How far is she from her starting point

$$\begin{array}{c}
 20 \\
 96^{1} + 28^{2} = X^{2} \\
 24^{2} + 7^{2} = X^{2} \\
 X = 25 \\
 \hline
 100 \text{ M}
 \end{array}$$



#29



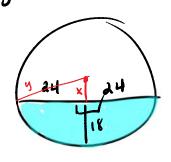
$$1.8^{2} + 24^{2} = x^{2}$$

$$18^2 + 24^2 = x^2$$

$$3^{2} + 4^{2} = x^{2}$$

b dist. between ardes =
$$3-1.1-.7=1.2$$

#32 The water in a drainpipe is 18 cm deep The width of the surface of the water is 48 cm. Jind the radius of the pipe



$$x^{2}+44^{2}=y^{2}$$
 $x+18=y$ so $y=7+18$

$$x^{2}+44^{2}=(x+18)^{2}$$

$$x^{2}+576=x^{2}+36x+324$$

$$25\lambda=36x$$

$$7=x$$