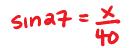
Sec 9.10 pgs. 425 - 427 #2 - 4, 6 - 11, 15

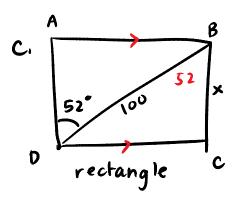
#2 a. ≈ 24 #3 a. 45 b ≈ 74 b. 30 c. ≈ 45 c. 60

#4 Q. 40 ×



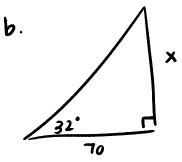
 $x = 40 \sin 27$ 

X ~ 18

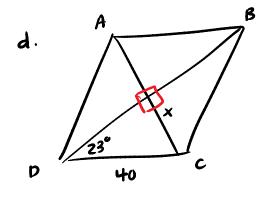


 $\cos 52 = \frac{x}{100}$ 

x = 100 cos52 x = 62



$$\tan 32 = \frac{x}{70}$$
$$x = 70 \tan 32$$
$$x \approx 44$$

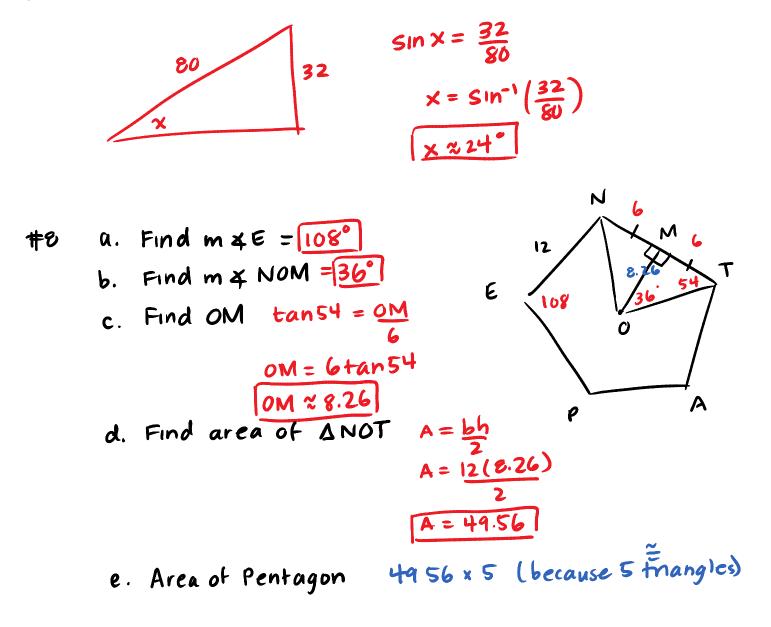


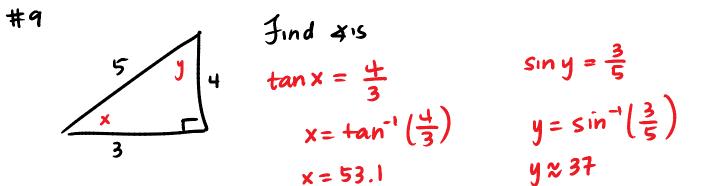
 $\sin a 3 = \frac{x}{40}$  $x = 40 \sin 23$  $\boxed{x \approx 16}$ 

#6 Solve

$\alpha.  \sin a 5^\circ = \frac{x}{40}$	b. $\cos 73 = \frac{35}{x}$	$C_{-} Sin X = \frac{29}{30}$
x = 40sina5 $x \approx 17$	$ \begin{array}{l} \times \cos 73 = 35 \\ \times = \underbrace{35} \\ \cos 73 \\ \hline \times \approx 120 \end{array} \end{array} $	$30 \sin x = 29$ $\sin x = \frac{29}{30}$ $x = \sin^{-1}(\frac{29}{30})$ $x \approx 75$

**#7** A department store escalator is 80ft long. IF it rises 32ft vertically, find the angle it makes with the floor.





#15

