

Section 8-4

Selected Answers / Solutions

"SOH CAH TOA"

18.) $\sin 6^\circ = 0.1045$

22.) $\tan 12.7^\circ = 0.2254$

20.) $\cos 77^\circ = 0.2250$

38.) $\sin B = 0.7245$

40.) $\tan E = 9.4618$
 $E = 84.0^\circ$

$B = 46.4^\circ$

42.) $\cos D = 0.1212$

44.) $x = 8.5$

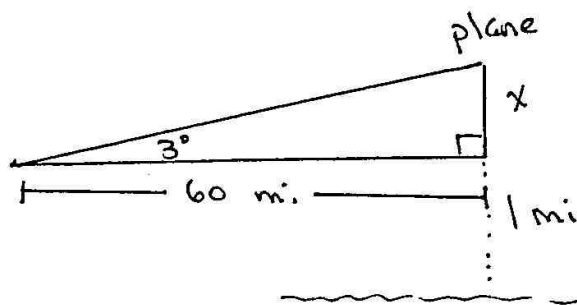
$D = 83.0^\circ$

46.) $x = 28.2$

48.) $x = 22.6$

50.) The 20-foot ladder can safely reach 19.32 feet.

24.)



SOH CAH TOA

$\tan 3^\circ = \frac{x}{60}$

The plane is
4.14 mi above
sea level.

$60 \tan 3^\circ = x$

$x \approx 3.14 \text{ mi}$

52.) $x \approx 41.8$

54.) $x \approx 38.4$

$y \approx 29.2$

$y \approx 32.6$