

4.2 HW

Thursday, October 23, 2014 8:02 PM

p. 366: 3-39 odd (omit 5, 9, 15), 42, 44, 57, 58, 61 (Do 19-23 odd without a calculator) *omit 31

$$\begin{array}{ll} \textcircled{3} \sin \theta = 12/13 & \csc \theta = 13/12 \\ \cos \theta = 5/13 & \sec \theta = 13/5 \\ \tan \theta = 12/5 & \cot \theta = 5/12 \end{array} \quad \begin{array}{ll} \textcircled{7} \sin \theta = \sqrt{57}/11 & \csc \theta = 11/\sqrt{57} \\ \cos \theta = 8/11 & \sec \theta = 11/8 \\ \tan \theta = \sqrt{57}/8 & \cot \theta = 8/\sqrt{57} \end{array}$$

$$\textcircled{11} \begin{array}{l} \begin{array}{c} 11 \\ \backslash \\ \theta \\ / \\ 5 \end{array} \quad \sqrt{96} = 4\sqrt{6} \quad \begin{array}{l} \sin \theta = 4\sqrt{6}/11 \\ \tan \theta = 4\sqrt{6}/5 \end{array} \quad \begin{array}{l} \csc \theta = 11/4\sqrt{6} \\ \sec \theta = 11/5 \\ \cot \theta = 5/4\sqrt{6} \end{array} \quad \begin{array}{ll} \textcircled{13} \sin \theta = 5/\sqrt{106} & \csc \theta = \sqrt{106}/5 \\ \cos \theta = 9/\sqrt{106} & \sec \theta = \sqrt{106}/9 \\ & \cot \theta = 9/5 \end{array} \end{array}$$

$$\begin{array}{llll} \textcircled{17} \sin \theta = 9/23 & \csc \theta = 23/9 & \textcircled{19} \sqrt{3}/2 & \textcircled{23} \sqrt{2}/2 \\ \cos \theta = 8\sqrt{7}/23 & \sec \theta = 23/8\sqrt{7} & \textcircled{21} \sqrt{3} & \textcircled{25} \sqrt{2} \\ \tan \theta = 9/8\sqrt{7} & \cot \theta = 8\sqrt{7}/9 & \textcircled{27} 2/\sqrt{3} & \textcircled{33} .268 \\ \textcircled{29} .961 & \textcircled{35} 1.524 \end{array}$$

$$\begin{array}{llll} \textcircled{37} .810 & \textcircled{39} 2.414 & \textcircled{42} 60^\circ \text{ \& } \pi/3 & \textcircled{44} 45^\circ \text{ \& } \pi/4 \\ \textcircled{57} b=22.25 & & & c=27.16 \\ & & & \alpha = 35^\circ \end{array}$$

$$\begin{array}{ll} \textcircled{58} b=8.32 & \textcircled{61} 205.26 \text{ ft} \\ c=9.71 & \\ \alpha = 31^\circ & \end{array}$$