

Homework: Evaluating from the Unit Circle

p. 381 # 25-45 odd and # 65-75 odd

p. 381 25. $\csc \frac{11\pi}{2}$
 $= \csc \frac{3\pi}{2}$
 $\frac{1}{-1} = \boxed{-1}$

27. $\cos(-\frac{3\pi}{2})$
 $\boxed{0}$

29. $\sec(-\pi)$
 $\frac{1}{-1} = \boxed{-1}$

31. $\sin 45 + \cos 60$
 $\frac{\sqrt{2}}{2} + \frac{1}{2} = \boxed{\frac{\sqrt{2}+1}{2}}$

33. $\sin 90 + \tan 45$
 $1 + \frac{\sqrt{2}}{\frac{\sqrt{2}}{2}} \rightarrow 1 + 1 = \boxed{2}$

35. $\sin 45 \cdot \cos 45$
 $\frac{\sqrt{2}}{2} \cdot \frac{\sqrt{2}}{2} = \frac{2}{4} = \boxed{\frac{1}{2}}$

37. $\csc 45 \cdot \tan 60$
 $\frac{2}{\sqrt{2}} \cdot \frac{\sqrt{3}}{1} = \boxed{\sqrt{6}}$

39. $4\sin 90 - 3\tan 180$
 $4(1) - 3(0) = \boxed{4}$

41. $2\sin \frac{\pi}{3} - 3\tan \frac{\pi}{6}$
 $2(\frac{\sqrt{3}}{2}) - 3(\frac{1}{\sqrt{3}})$

$\sqrt{3} - 3(\frac{\sqrt{3}}{3}) = \sqrt{3} - \sqrt{3} = \boxed{0}$

43. $2\sec \frac{\pi}{4} + 4\cot \frac{\pi}{3}$
 $2(\frac{2}{\sqrt{2}}) + 4(\frac{1}{\sqrt{3}})$

$2(\sqrt{2}) + 4(\frac{\sqrt{3}}{3})$
 $\boxed{\frac{2\sqrt{2} + 4\sqrt{3}}{3}}$

45. $\csc \frac{\pi}{2} + \cot \frac{\pi}{2}$
 $1 + 0 = \boxed{1}$

65. $\sin 28 = \boxed{.469}$

67. $\sec 21 = \boxed{1.071}$

69. $\tan \frac{\pi}{6} = \boxed{.325}$

71. $\cot \frac{\pi}{12} = \boxed{3.732}$

73. $\sin 1 = \boxed{.841}$

75. $\sin 1^\circ = \boxed{.017}$