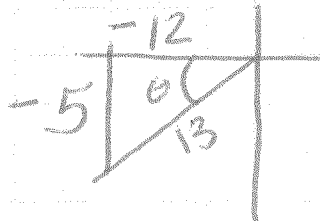


251 36-38, 43-48, 50-55, 104-106

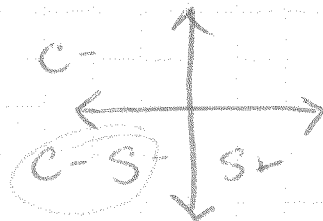
36. $\cos \theta = -\frac{12}{13}$, $\sin \theta < 0$



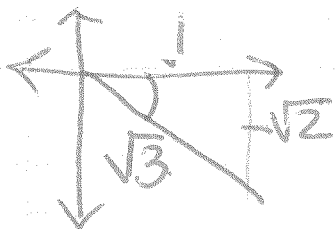
$$\sin \theta = -\frac{5}{13} \quad \csc \theta = -\frac{13}{5}$$

$$\cos \theta = -\frac{12}{13} \quad \sec \theta = -\frac{13}{12}$$

$$\tan \theta = \frac{5}{12} \quad \cot \theta = \frac{12}{5}$$



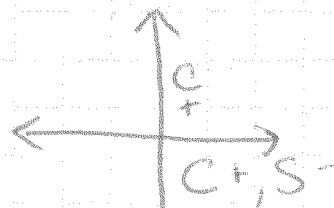
37. $\sec \theta = \sqrt{3}$ $\sin < 0$, $\cos > 0$



$$\sin \theta = -\frac{\sqrt{2}}{3} \quad \csc \theta = -\frac{3}{\sqrt{2}}$$

$$\cos \theta = \frac{1}{3} = \frac{\sqrt{3}}{3} \quad \sec \theta = \sqrt{3}$$

$$\tan \theta = -\sqrt{2} \quad \cot \theta = -\frac{\sqrt{2}}{2}$$



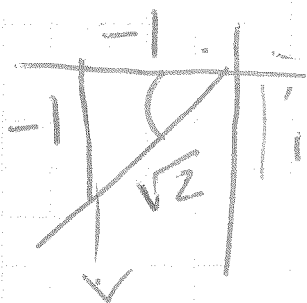
$$(\sqrt{3})^2 = 1^2 + x^2$$

$$3 - 1 = x^2$$

$$2 = x^2$$

$$x = \sqrt{2}$$

$$38. \cot \theta = 1 \quad \sin \theta < 0, \cos \theta < 0 \text{ 3rd Q}$$



$$\sin \theta = -\frac{\sqrt{2}}{2} \quad \csc \theta = -\sqrt{2}$$

$$\cos \theta = -\frac{\sqrt{2}}{2} \quad \sec \theta = -\sqrt{2}$$

$$\tan \theta = 1 \quad \cot \theta = 1$$

$$43. \sec 120^\circ = -2$$

$$44. \sin 315^\circ = -\frac{\sqrt{2}}{2}$$

$$45. \cos \frac{11\pi}{3} = \cos \frac{5\pi}{3} = \frac{1}{2}$$

$$46. \tan\left(-\frac{5\pi}{4}\right) = \tan \frac{3\pi}{4} = -1$$

$$47. \csc 390^\circ = \csc 30^\circ \quad \sin 30^\circ = \frac{1}{2}$$

$$\csc 30^\circ = 2$$

$$48. \cot \frac{510^\circ}{360} = \cot 150^\circ = -\sqrt{3}$$

$$50. \sec \frac{3\pi}{2} \quad \cos \frac{3\pi}{2} = 0, \\ \text{undefined}$$

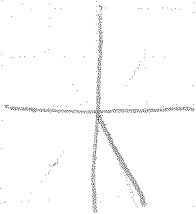
$$51. \cot\left(-\frac{5\pi}{6}\right) \quad \sin \frac{7\pi}{6} = -\frac{1}{2} \quad \cos \frac{7\pi}{6} = -\frac{\sqrt{3}}{2}$$

$$-\frac{\sqrt{3}}{2} \cdot -\frac{2}{1} \quad \cot\left(-\frac{5\pi}{6}\right) = \sqrt{3}$$

$$52. \csc \frac{17\pi}{6} = \csc \frac{5\pi}{6} \quad \sin 30^\circ = \frac{1}{2}$$

$$\csc \frac{5\pi}{6} = 2$$

$$53. \tan \frac{5\pi}{3} = -\sqrt{3}$$



$$54. \sec \frac{7\pi}{6} \quad \cos \frac{7\pi}{6} = -\frac{\sqrt{3}}{2} \quad \sin \frac{7\pi}{6} = -\frac{1}{2}$$

$$\sec \frac{7\pi}{6} = -\frac{2\sqrt{3}}{3}$$

$$55. \sin\left(-\frac{5\pi}{3}\right) = \frac{\sqrt{3}}{2}$$

$$104. B \quad 105. \frac{2}{3} \text{ rev/s} \quad \frac{2}{3} \cdot 2\pi = \frac{4\pi}{3} \text{ J}$$

$$106. \begin{array}{|c|} \hline E \\ \hline - \\ \hline \end{array} \quad A$$