1) $\cos \frac{13\pi}{4} = \cos\left(-\frac{3\pi}{4}\right) = -\frac{\sqrt{2}}{2}$

$\sin\left(-\frac{8\pi}{3}\right) = \sin\left(-\frac{2\pi}{3}\right) = -\frac{\sqrt{3}}{2}$

$\sin\left(\frac{7\pi}{6}\right) = -1/2$