

You may have correctly determined that the point $\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$ is where the angle $\frac{7\pi}{6}$ radians or 210° intersects the unit circle. However, you forgot which coordinate corresponds to which function. The x-coordinate gives you the value of the cosine function at that angle, and the y-coordinate gives you the value of the sine function at that angle. The correct answer is: $\cos\left(\frac{7\pi}{6}\right) = -\frac{\sqrt{3}}{2}$ and $\sin\left(\frac{7\pi}{6}\right) = -\frac{1}{2}$