1. (3 points) Suppose that \( f(x) = \sqrt{9-x} \) and \( g(x) = 5 + \sqrt{2x-6} \). What is the domain of the composite function \( (f \circ g)(x) \) ?

2. (2 points) Evaluate the quantity \( \csc \left( \frac{5\pi}{6} \right) \).
3. (2 points) There is an angle $\theta$ for which $\cos \theta \approx 0.927$, $\sin \theta \approx 0.375$ and $\tan \theta \approx 0.404$. What is the value of $\cos(\pi - \theta)$?

4. (3 points) Carefully sketch a graph of the function $f(x) = 7 - 3 \cos x$ on the interval $[0, 2\pi]$. 