

Name _____

- No calculators allowed.
 - Show sufficient work to justify each answer.
 - You have 12 minutes for this quiz.
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 $\csc(5\pi/6)$.

3. (2 points) There is an angle θ 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 $[0, 2\pi]$.