Calculus I **Absolute Max/Min** Name:

1. Consider $f(\theta) = \sqrt{3}\,\theta - 2\cos\theta$. Does $f(\theta)$ have an absolute max on $[0, 2\pi]$? What about an absolute min? If either exist, find it.

2. Consider the function $f(x) = x^3 - 6x^2$ on the interval $[-1, 5]$. Find all critical values and find the absolute max and min.