

NAME: _____ Score _____/10

Please **print** your name

1. Solve the equation $2 \cos(x) = 1$ for $0 \leq x \leq 2\pi$

2. The solution set for $\sin^2(x) = \frac{1}{2} \sin(2x)$ for $0 \leq x < 2\pi$ is $\left\{0, \frac{\pi}{4}, \pi, \frac{5\pi}{4}\right\}$

What are **all** solutions for $\sin^2(x) = \frac{1}{2} \sin(2x)$