

Calculus I

Name: _____

DLA Series 7

Class: _____

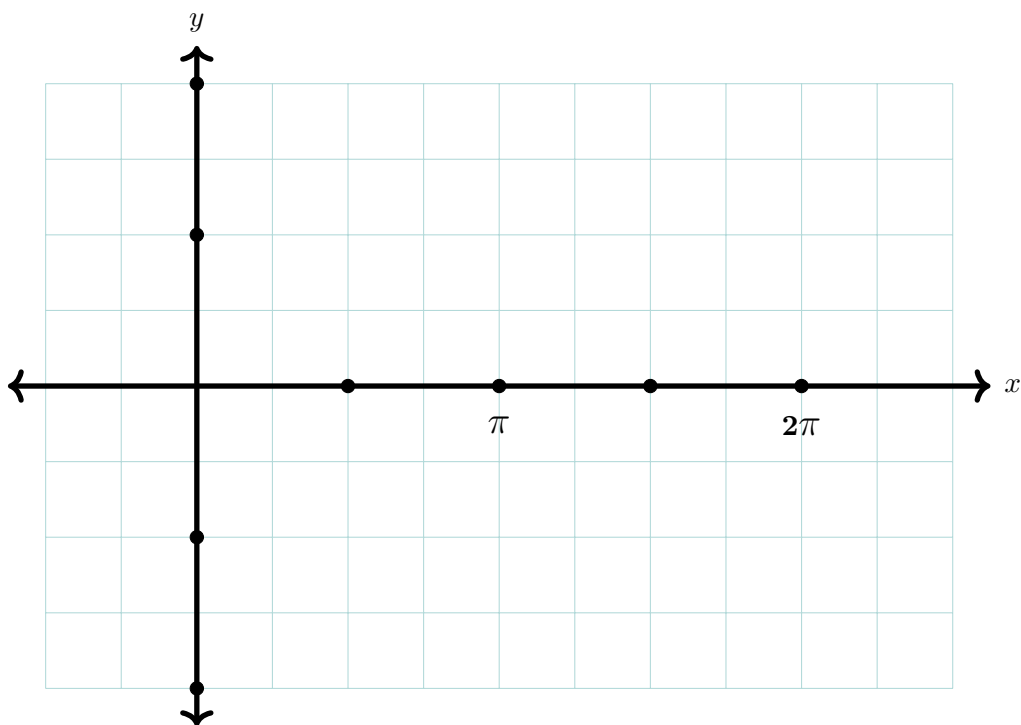
Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

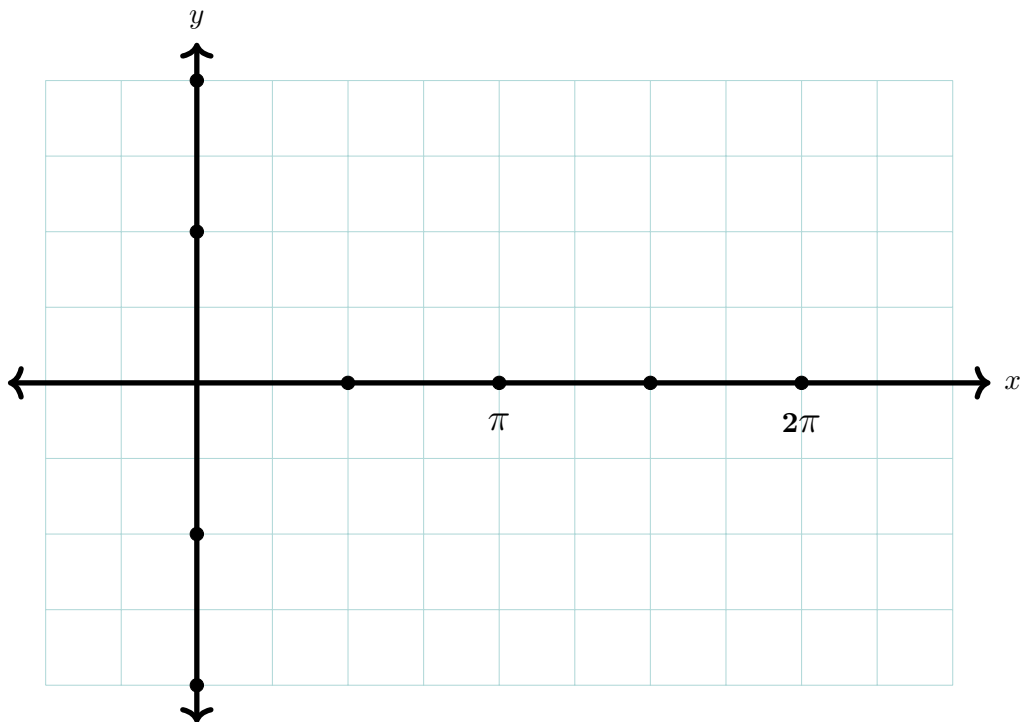
1. (6 points) Graph $f(x) = 2 \sin x$ over the interval $[0, 2\pi]$, then clearly shade the region bounded by $f(x)$, $x = \frac{\pi}{4}$, $x = \frac{3\pi}{4}$, and the x -axis.



2. (6 points) Find all solutions for $\sqrt{2} \cos x = 1$ on $[0, 2\pi)$.

2. _____

3. (6 points) Graph $f(x) = -\cos x$ over the interval $[0, 2\pi]$, then clearly shade the region bounded by $f(x)$, $x = \frac{\pi}{2}$, $x = \frac{3\pi}{2}$, and the x -axis.



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4. (6 points) Find all solutions for $2 \sin 2x + 1 = 0$ on $[0, 2\pi)$.

4. _____

5. (6 points) Find all solutions for $\tan \frac{1}{2}x + 1 = 0$ on $[0, 2\pi)$.

5. _____