

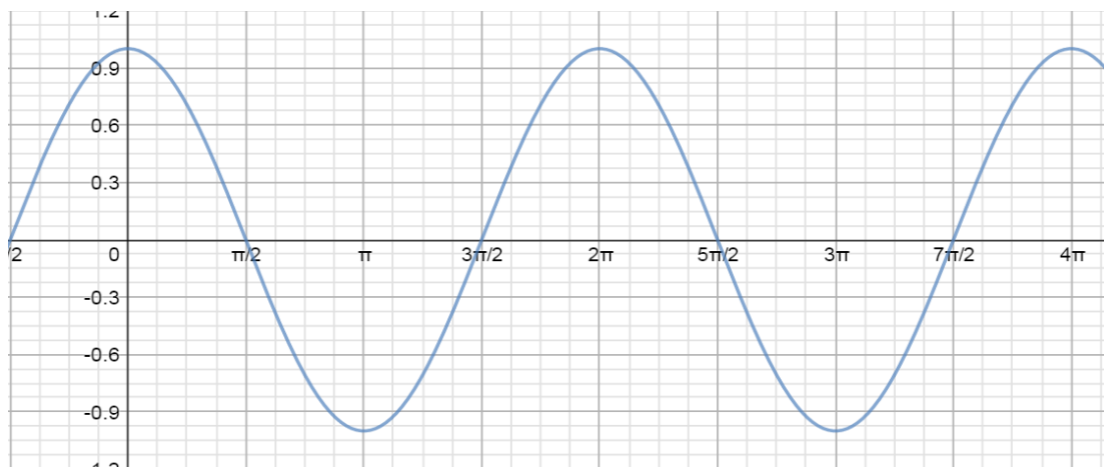
Chapter 9 – Section 9.1 Trigonometric Equations

TICKET-IN-THE-DOOR

In order to be prepared for class you must watch the module and complete the following activity. This is due first thing when you get to class.

Check your understanding:

1. Use the graph of $y = \cos t$ to **estimate the solution** to the equation $\cos t = 0.3$ for $0 \leq t \leq 4\pi$



2. Find the **exact solutions** to the equation $\cos x = \frac{1}{2}$ when $-2\pi \leq x \leq 2\pi$.
3. Find the **exact solutions** to the equation $\sin(2x) = 0.3$ when $0 \leq x \leq 2\pi$.
4. Find all **exact solutions** to the equation: $\sin \theta = \frac{-\sqrt{2}}{2}$ and $\cos \theta = \frac{\sqrt{3}}{2}$.