

Graphing Trigonometric Functions – Practice

1. Sketch the graphs of $y = \tan x$ and $y = 2 \cos x$ in the interval $0 \leq x \leq 4\pi$.

Determine the number of solutions to the equation $\tan x = 2 \cos x$ in the interval $0 \leq x \leq 4\pi$.



2. Sketch the graphs of $y = \tan x$ and $y = -2 \cos \frac{1}{2}x$ in the interval $-2\pi \leq x \leq 2\pi$.

For how many values of x in the interval $-2\pi \leq x \leq 2\pi$ does $\tan x = -2 \cos \frac{1}{2}x$?

