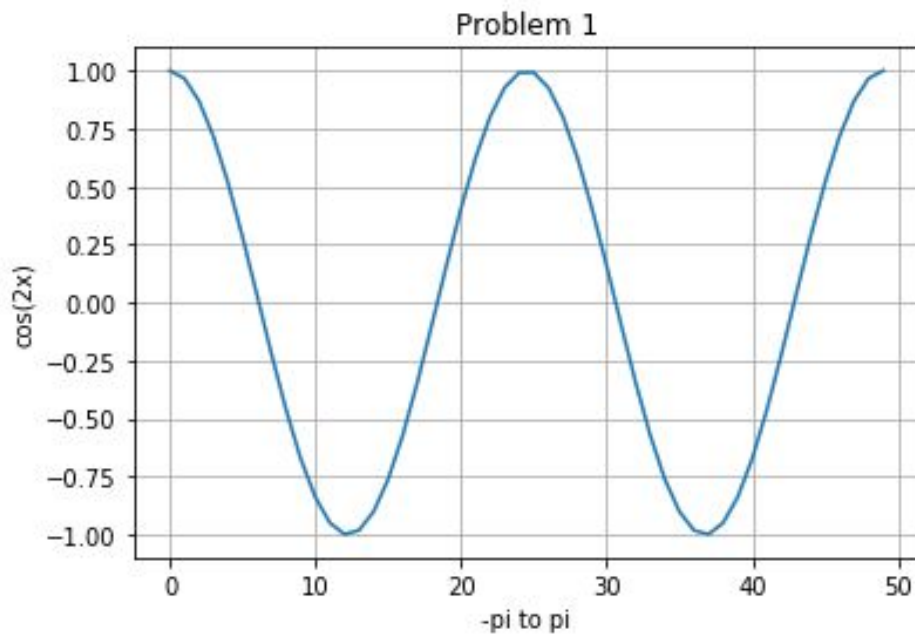
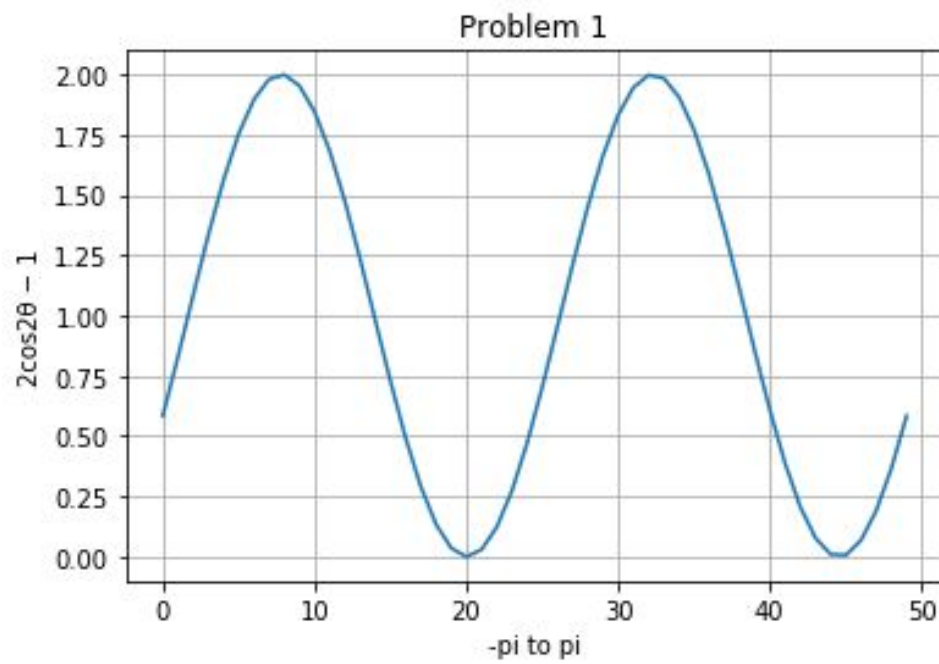


Problem 1-1. $f_1(\theta) = \cos 2\theta$



Problem 1- 2. $f_2(\theta) = 2\cos^2 \theta - 1$



Problem 1-3. $f_3(\theta) = \sec \theta + \tan \theta$

