- $\frac{\textbf{6.5, \# 43,45:}}{\text{(a). } 6\cos^2 x 7\sin x 1 = 0.}$ Solve the following equations on $[0, 2\pi)$.
- | 6.5, # 69,72,81,83,87: Solve the following equations over $[0, 2\pi)$.

(b). $2\cos x - 5 = 3\sec x$.

(b). $\cos 4x - 3\cos 2x - 1 = 0$

- **6.5**, #**54**: Solve the equation $\sec x + 1 = \tan x$ on $[0, 2\pi)$.
- (c). $15\cos^2 x 7\cos x = 2$.
- **6.5, #61:** Solve the equation $(\sin x 1)(4\sin x 3) = 0$ on $[0, 2\pi)$. Give the exact solution in radians and give approximations in degrees rounded to 1 decimal place.
- (d). $16\cos^2 x 8\cos x 1 = 0$.

(e). $\sin(\cos x) = 0$.