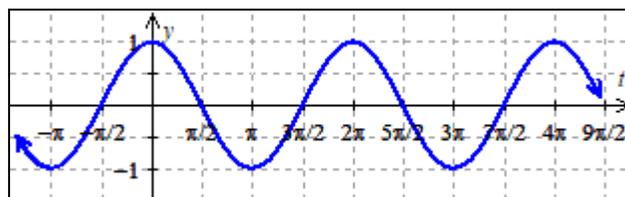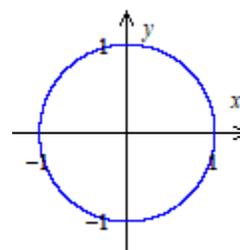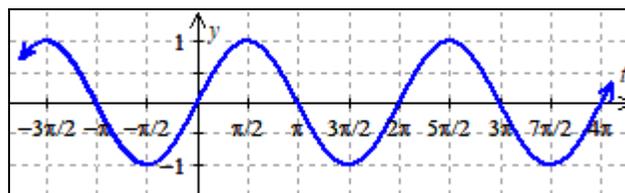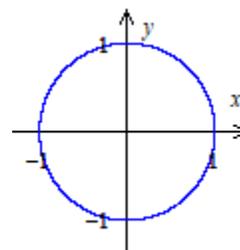# Solving Trig Equations

EXAMPLE: Find all of the solutions to the equation $8\cos(t) + 3 = -1$.

A graph of $y = \cos(t)$.

EXAMPLE: Find all of the solutions to the equation $4\sin(t) + 2\sqrt{3} = 0$.

A graph of $y = \sin(t)$.

EXAMPLE: First find *all* of the solutions to the equation $2\sqrt{2}\cos(3t) = -2$. Then find the particular solutions on the interval $[0, 2\pi)$.