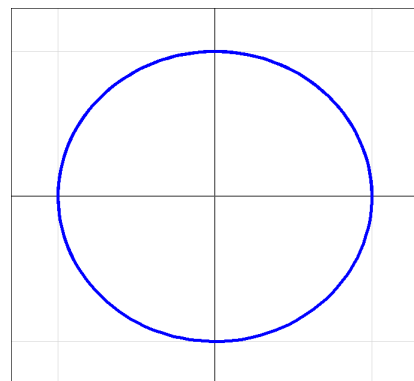


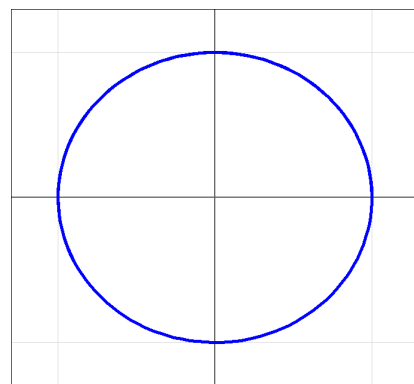
Precalculus 115, section 7.5 More Trigonometric Equations

notes by Tim Pilachowski

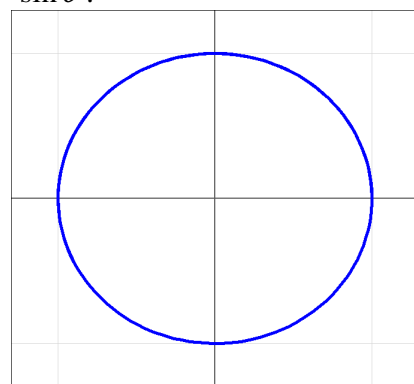
Example A: Find all solutions for the equation $2\sin^2 \theta + \cos \theta = 1$.



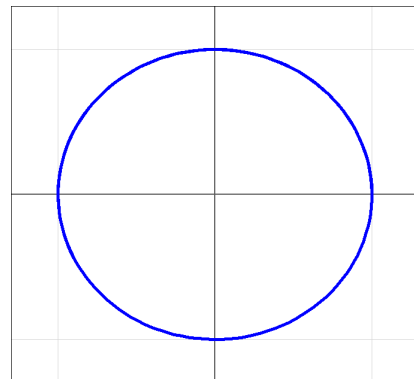
Example B: Find all solutions for the equation $2\cos\frac{\theta}{3} + \sqrt{3} = 0$.



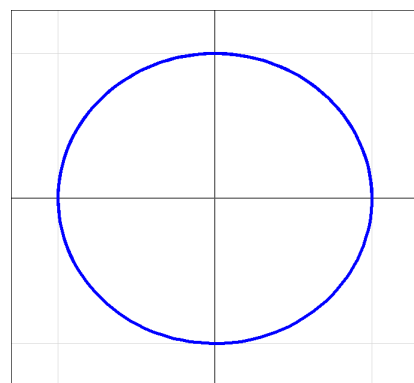
Example C: Find solutions on the interval $[0, 2\pi)$ for the equation $\csc \theta - \cot \theta = \sin \theta$.



Example D: Find solutions on the interval $[0, 2\pi)$ for the equation $\cos 2\theta + \sin \theta = 0$.



Example E: Find angles θ on the interval $[0, 2\pi)$ for which the graphs $f(\theta) = \sin 2\theta$ and $g(\theta) = 2 \sin 2\theta + 1$ intersect.



Example F [text #46]: Find solutions on the interval $[0, 2\pi)$ for the equation $\tan \theta + \cot \theta = 4 \sin 2\theta$.

