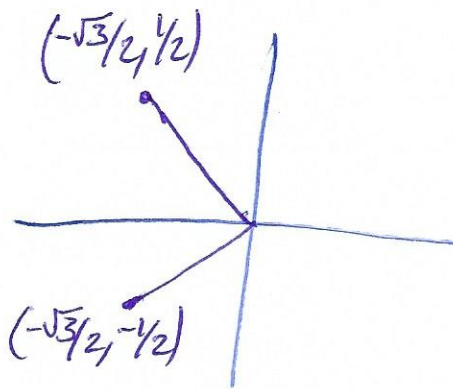


4/23/19

Ex: $2\cos(\theta) = -\sqrt{3}/2$



$$\theta = 5\pi/6, 5\pi/6 \pm 2\pi, 5\pi/6 \pm 4\pi, \dots$$

$$\theta = 7\pi/6, 7\pi/6 \pm 2\pi$$

Ex: $2(\sin(x/2))^2 - 3\sin(x/2) + 1 = 0$

Let $u = \sin(x/2)$

$$2u^2 - 3u + 1 = 0 \Rightarrow (2u-1)(u-1) = 0 \Rightarrow \begin{matrix} 2u-1=0 & , & u-1=0 \\ u=1/2 & & u=1 \end{matrix}$$

$$\Rightarrow \sin(x/2) = 1/2, \sin(x/2) = 1$$

Ex!

