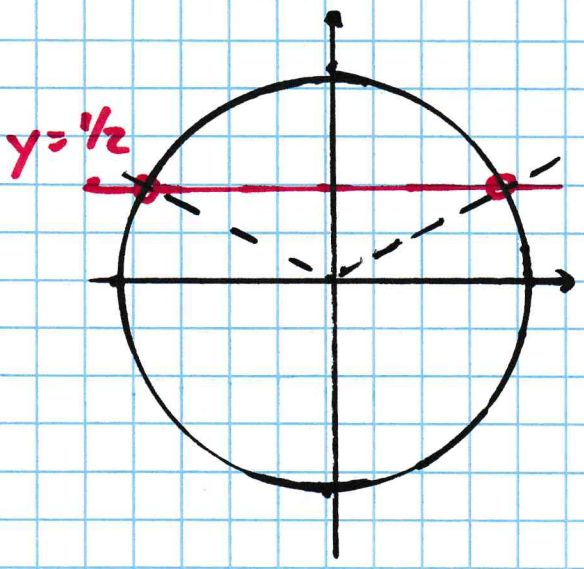


① Graphing Solutions to

$\sin\theta = c$

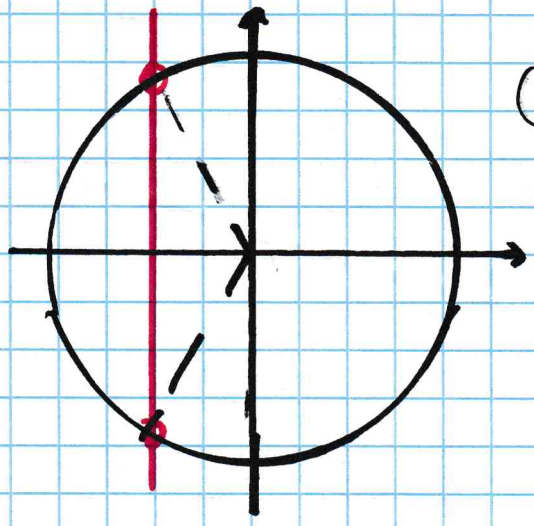
① sketch Unit Circle

② graph $y = c$ (horiz. line)

ex: $\sin\theta = 1/2$

$\theta = \pi/6, 13\pi/6 \ldots \pi/6 + 2n\pi$

$\theta = 5\pi/6 + 2n\pi$

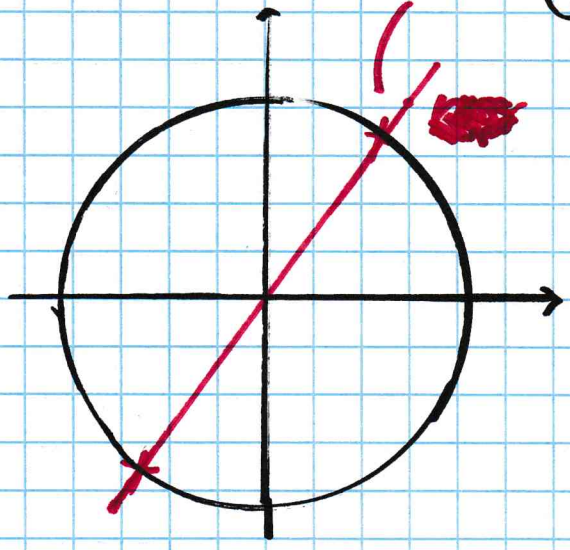


② $\cos\theta = c$

graph $x = c$ (vert. line)

ex: $\cos\theta = -1/2$

$\theta = 2\pi/3 + 2n\pi, 4\pi/3 + 2n\pi$



③ $\tan\theta = c \Rightarrow \frac{y}{x} = c$

graph $y = x \cdot c$

ex: $\tan\theta = \sqrt{3}$

$\theta = \pi/3 + 2n\pi, 4\pi/3 + 2n\pi$

or

$\theta = \pi/3 + n\pi$