

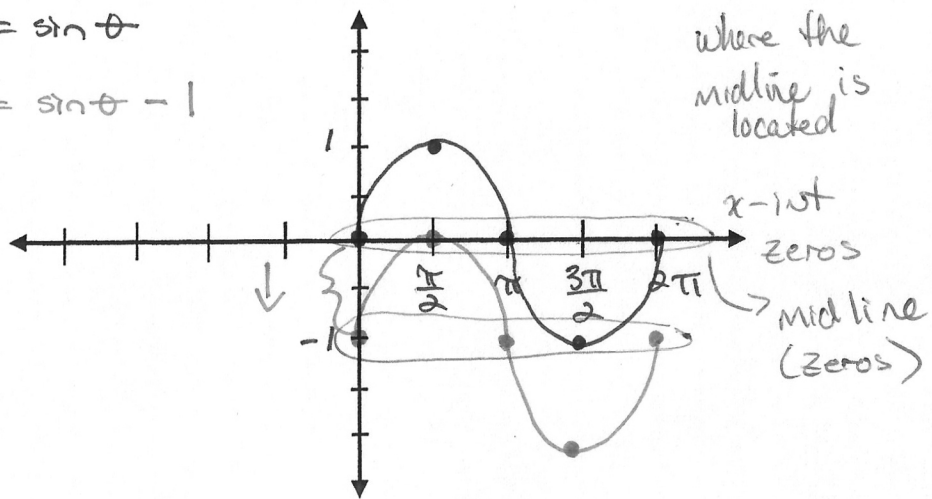
GRAPHING VERTICAL SHIFT & AMPLITUDE NOTES

(a)
 $y = a \sin/\cos \theta \pm k$

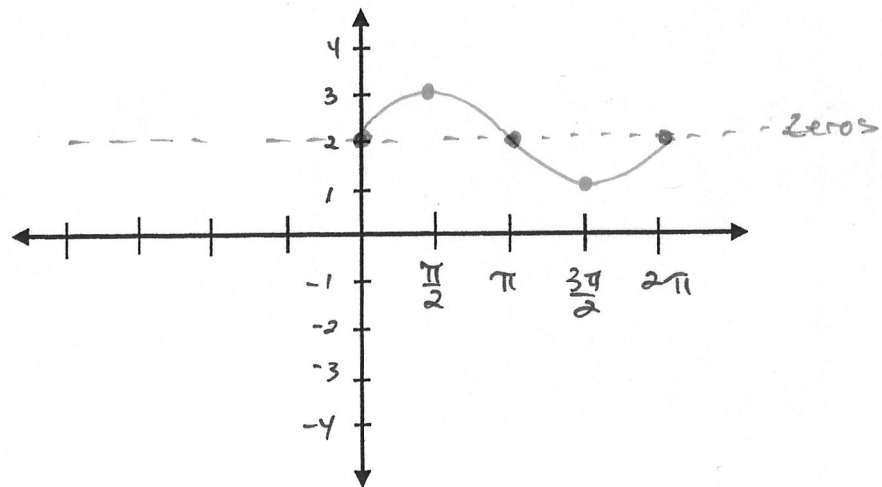
k

where the
midline is
located

$y = \sin \theta$
 $y = \sin \theta - 1$



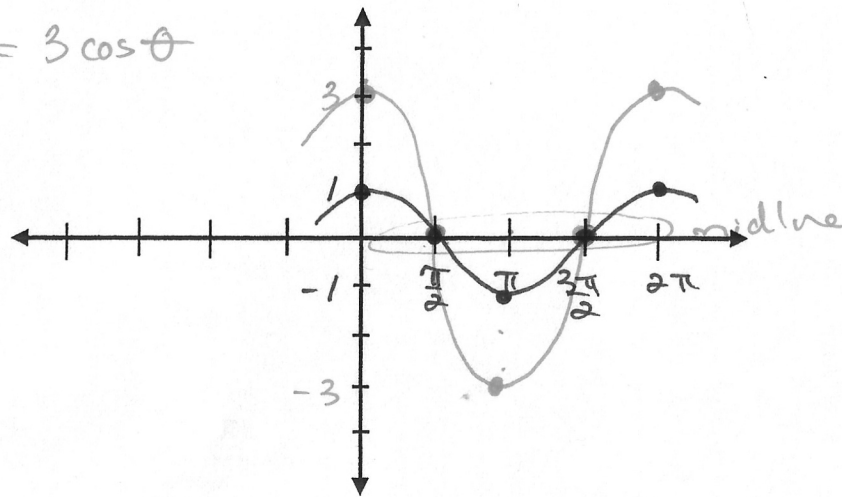
$y = \sin \theta + 2$ midline



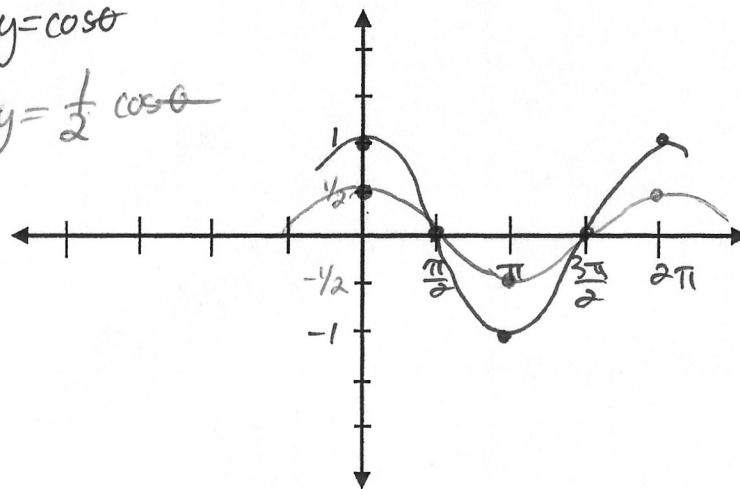
GRAPHING VERTICAL SHIFT & AMPLITUDE NOTES

↳ Distance the max/min are from midline

$y = \cos \theta$
 $y = 3 \cos \theta$



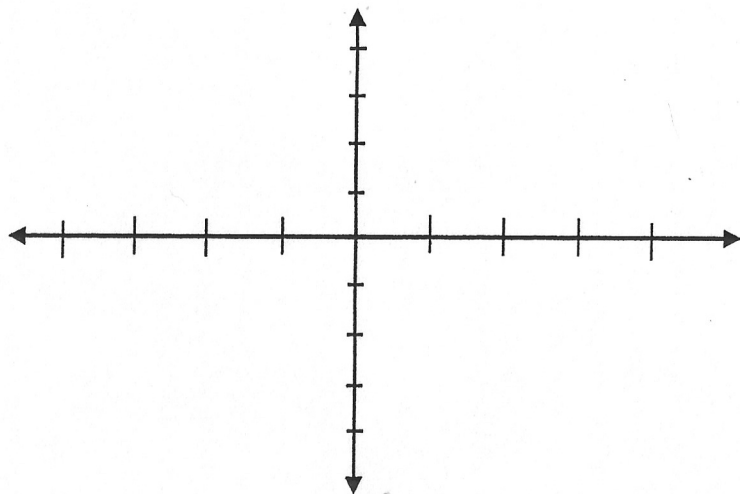
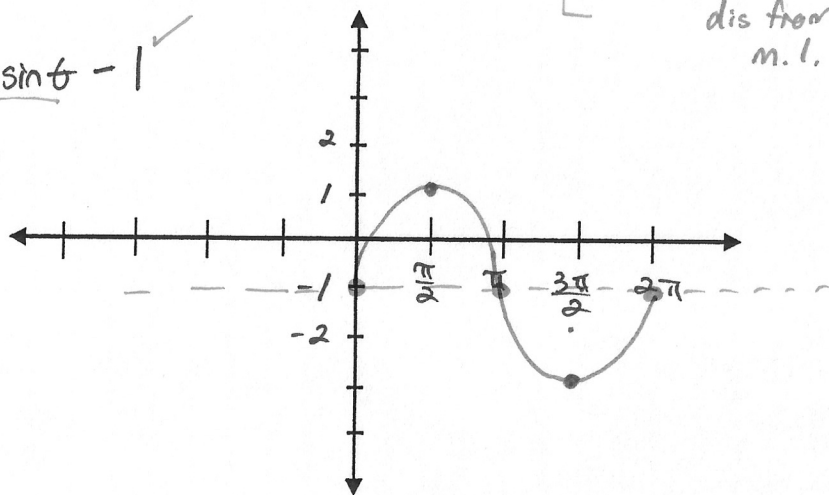
$y = \cos \theta$
 $y = \frac{1}{2} \cos \theta$



$$y = a \sin/\cos \theta \pm k$$

- vert trans.
- ① $k \rightarrow$ v.s. midline
 - ② $a \rightarrow$ amp dis from m.l.

$$y = 2 \sin \theta - 1$$



$$y = 3 \cos \theta + 1$$

\rightarrow flips max & min

v.s. 1

Amp: 3

