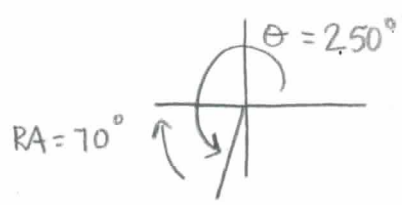
HA2T 8.1 to 8.4 Review Worksheet Name: Key

1. Draw the angle in standard position and find and show the reference angle.

250°



2. Find the *exact* value for the following:

a. $\cos 180°$ -1

b. $\sin 240°$ $\frac{-\sqrt{3}}{2}$

c. $\cos 60°$ $\frac{1}{2}$

d. $\tan \frac{3\pi}{4}$ -1

e. $\cos 180° \sin 90° - \cos 30° \sin 60°$

$(-1)(1) - \left(\frac{\sqrt{3}}{2}\right)\left(\frac{\sqrt{3}}{2}\right)$

$-1 - \frac{3}{4}$

$-7/4$

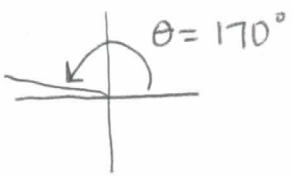
f. $\sin 240° \sec 150° + \cos 45° \sec 225°$

$-\frac{\sqrt{3}}{2} \cdot \frac{-2}{\sqrt{3}} + \frac{\sqrt{2}}{2} \cdot \frac{-2}{\sqrt{2}}$

$1 - 1$

0

3. Find a coterminal angle to $170°$

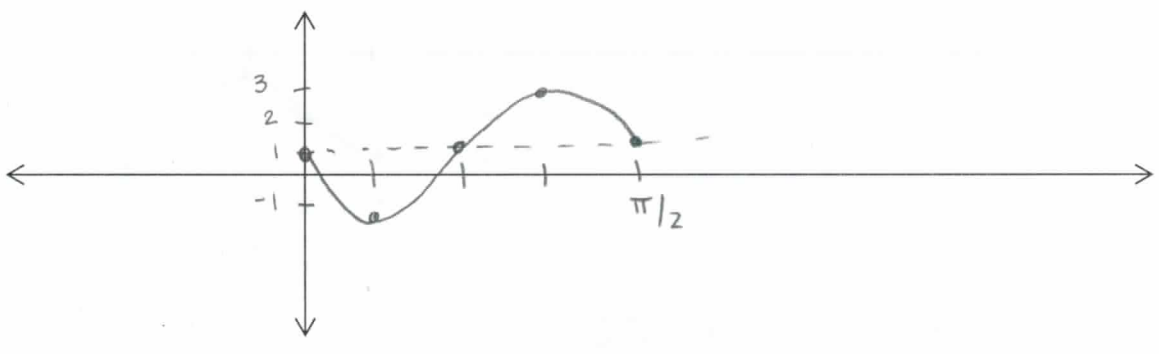


$-190°$
$+530°$

Sketch the graph of each equation.

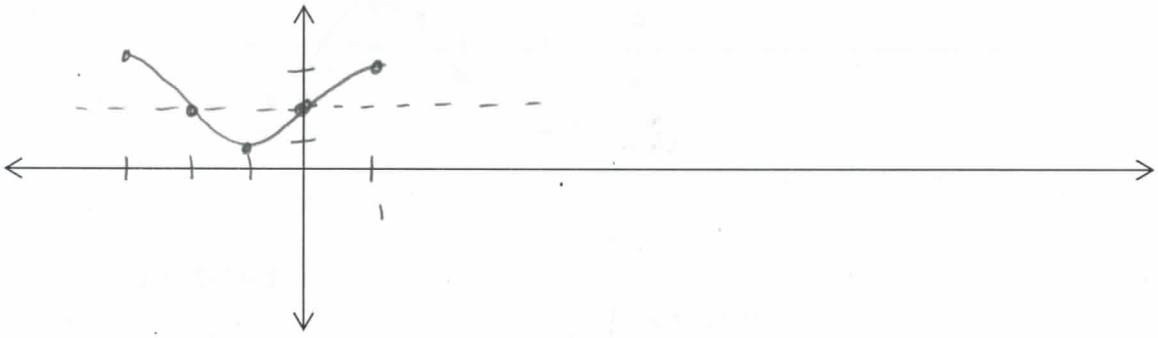
↑ 1 amp 2 per $\pi/2$

4. $y = 1 - 2\sin(4x)$



↑2 ←3 amp 1 per. 4

5. $y = 2 + cos\,\frac{\pi}{2}\,(x+3)$



↑2 ←2 per. 8

6. $y = 2 - sin\frac{\pi}{4}\,(x+2)$