

# Assignment #11

3/2/2000

119.1

#1 estimate

a)  $\cos 1.1 \approx 0.45$

b)  $\sin 1.1 \approx 0.9$

c)  $\sin 3.5 \approx -0.35$

d)  $\cos 4.2 \approx -0.5$

e)  $\cos 5.9 \approx 0.9$

f)  $\sin 2.2 \approx 0.8$

g)  $\sin 5.7 \approx -0.55$

#2 a)  $\cos t = 0.3$   $t \approx 1.3$  and  $5.05$

b)  $\sin t = 0.7$   $t \approx 0.8, 2.35$

c)  $\sin t = -0.7$   $t \approx 3.9, 5.5$

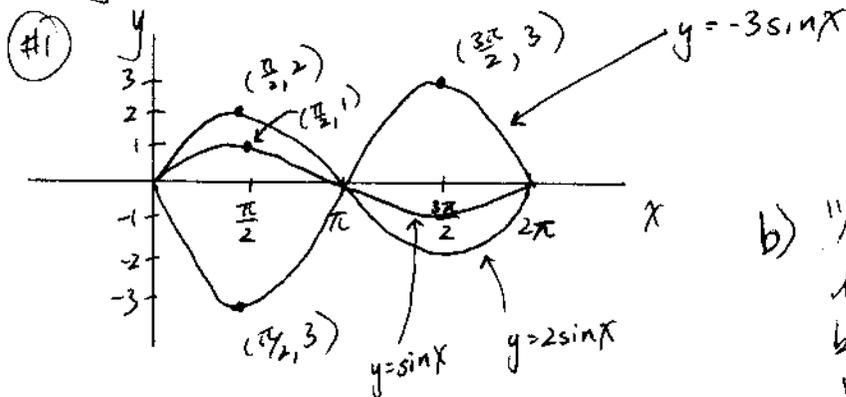
#5 a) this is NOT true for any  $x$ .

$\sin x$  is the vertical value. Not equal

b) True.  $\sin x$  and  $\sin(-x)$  are negatives

c) True.  $\cos(x)$  is the horizontal coordinate.

119.2



b) "A" gives amplitude - half the vertical distance between the peaks and valleys.