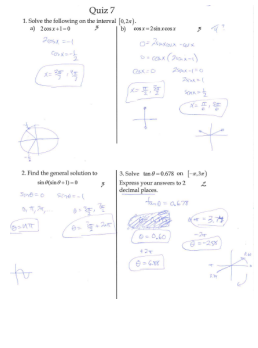
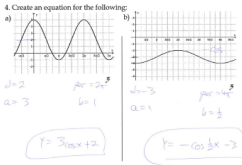
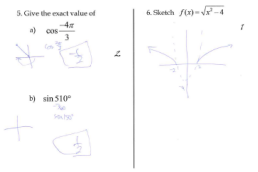
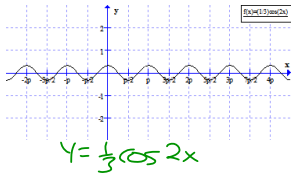
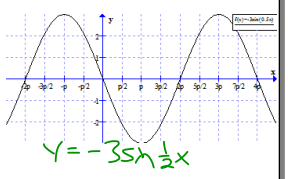
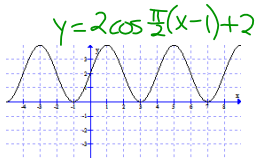
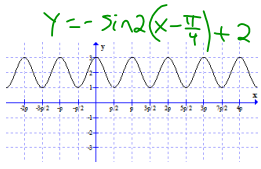
Transforming Sine & Cosine III (5.2) p251 day 5

take up quiz 7

Transforming Sine & Cosine III (5.2) p251 day 5

HW: graphing practice sheet 1-4

3.

$y = 2\cos\frac{\pi}{2}(x-1)+2$

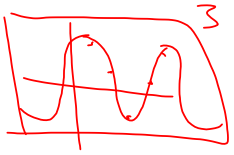
x	y	$\frac{2}{\pi}x+1$
0	1	1
$\frac{\pi}{2}$	2	2
π	3	3
$\frac{3\pi}{2}$	2	2
2π	1	1

$\frac{2}{\pi}\cdot\frac{\pi}{2}$

1

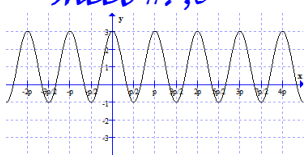
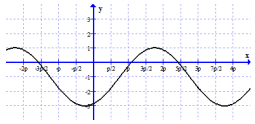
$\frac{\pi}{2}\cdot\frac{3\pi}{2}$

3 + 1 = 4



Transforming Sine & Cosine III (5.2) p251 day 5

sheet #5,6

Transforming Sine & Cosine III (5.2) p251 day 5

how do we make the equation from a graph?

ex1: Write the equation.

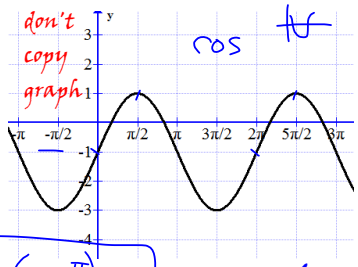
d = −1

a = 2

per = 2π

b = $\frac{2\pi}{2\pi} = 1$

c = $\frac{\pi}{2}$



$y = 2\cos\left(x-\frac{\pi}{2}\right)-1$

$y = 2\sin x - 1$

15b

c is the x-coordinate of the starting point of the graph.

Transforming Sine & Cosine III (5.2) p251 day 5

ex2: Write the equation

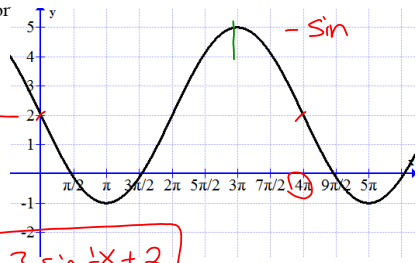
d = 2

a = 3

per = 4π

b = $\frac{2\pi}{4\pi} = \frac{1}{2}$

c = 0



$y = -3\sin\frac{1}{2}x + 2$

$y = -3\cos\frac{1}{2}(x-\pi)+2$

$y = 3\cos\frac{1}{2}(x-3\pi)+2$

$y = 3\sin\frac{1}{2}(x-2\pi)+2$

16a

Transforming Sine & Cosine III (5.2) p251 day 5

ex3: Write the equation.

d = 1

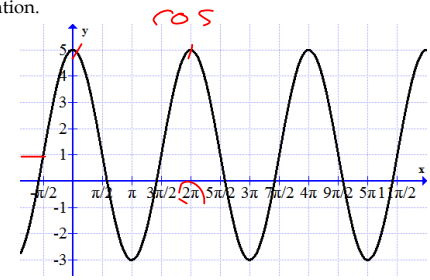
a = 4

per = 2π

b = 1

c = 0

cos



y = 4 cos x + 1

14a

just make the equation

Transforming Sine & Cosine III (5.2) p251 day 5

HW: 14c, 15c, 16c

sheet #7,8