Homework #47 **Answers**

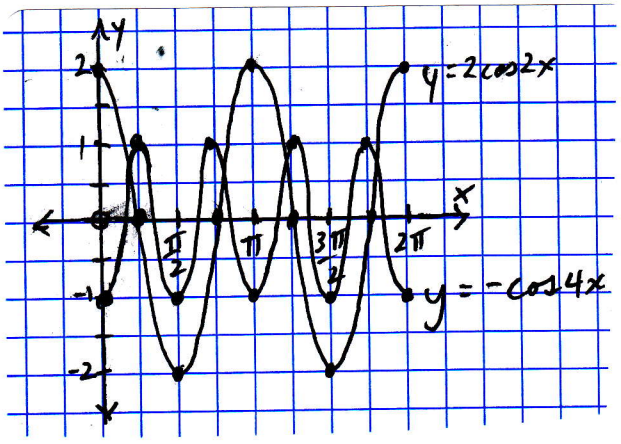
From Houghton-Mifflin 3rd Edition

p330:

1) $y = 3 \sin 2x$
   amplitude = 3, period = $2\pi/2 = \pi$
2) $y = 2 \cos 3x$
   amplitude = 2, period = $2\pi/3$
3) $y = (5/2) \cos (x/2)$
   amplitude = 5/2, period = $(2\pi)/(1/2) = 4\pi$
4) $y = -3 \sin (x/3)$
   amplitude = 3, period = $(2\pi)/(1/3) = 6\pi$
5) $y = (2/3) \sin \pi x$
   amplitude = 2/3, period = $2\pi/2 = \pi$
6) $y = (3/2) \cos (\pi x)/2$
   amplitude = 3/2, period = $(2\pi)/(\pi/2) = 4$

30) $f(x) = 2 \cos 2x$ amplitude = 2, period = π
    $g(x) = -\cos 4x$ amplitude = 1, period = $\pi/2$

Graph:



Plus Worksheet #47