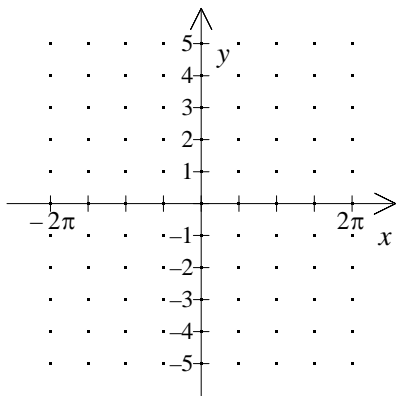


P.I. A2.A.70: Sketch and recognize one cycle of a function of the form $y=A\cos Bx$

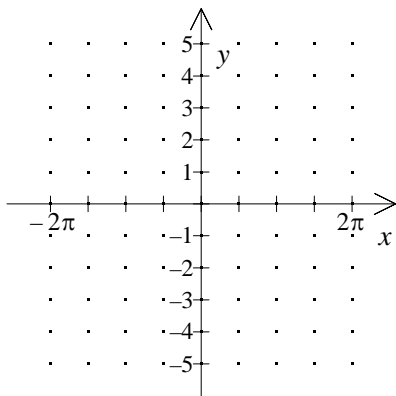
Graph:

1. $y = \cos x$



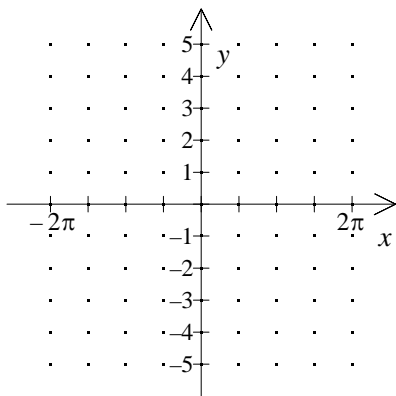
[1] _____

2. $y = 4 \cos x$



[2] _____

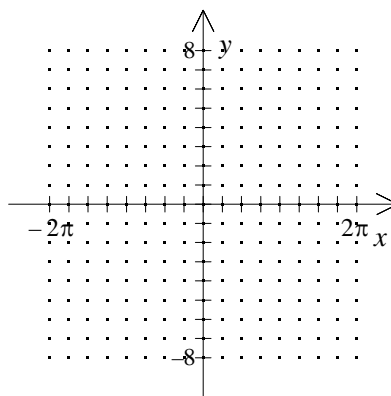
3. $y = 2 \cos x$



[3] _____

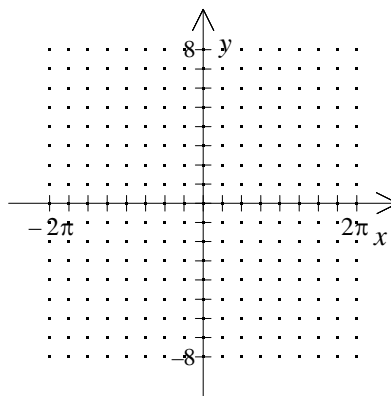
NAME: _____

4. $y = -2 \cos(2x)$



[4] _____

5. $y = -6 \cos(4x)$



[5] _____

6. This chart shows the high and low tides for a town along the Atlantic Coast during two days in the autumn.

High Tide	Low Tide
2:31 am	8:42 am
2:47 pm	8:55 pm

The low tide was at 4 ft and the high tide was at 9 ft. Sketch the graph of the height of the tide as a cosine function.

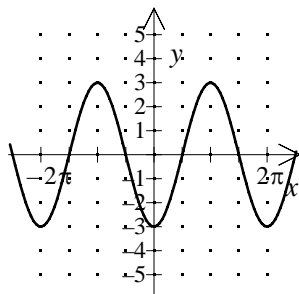
[6] _____

NAME: _____

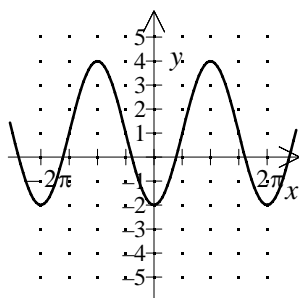
Graph:

7. $y = -3 \cos x$

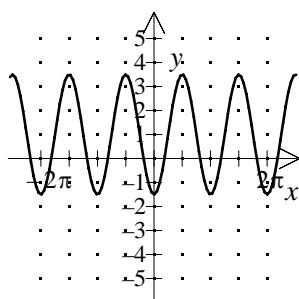
[A]



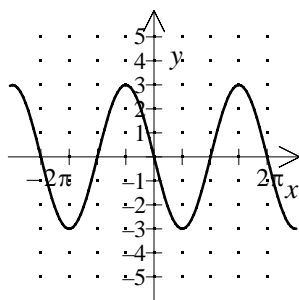
[B]



[C]

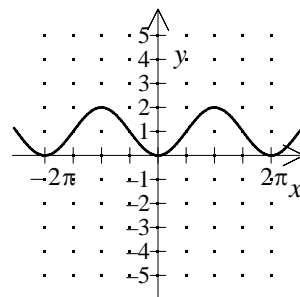


[D]

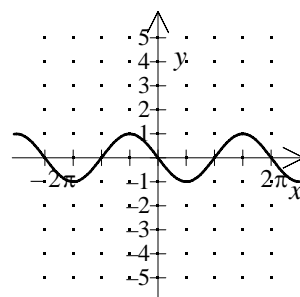


8. $y = -\cos x$

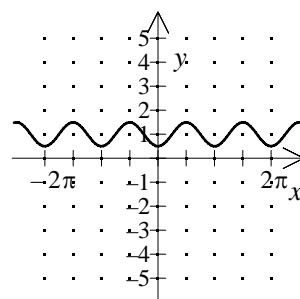
[A]



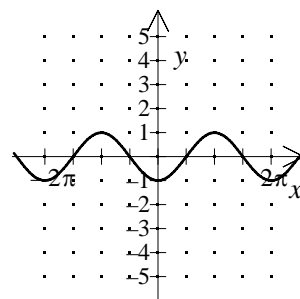
[B]



[C]

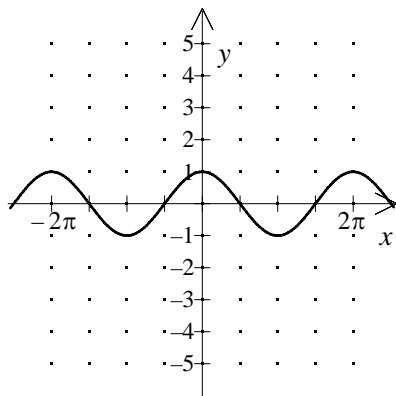


[D]

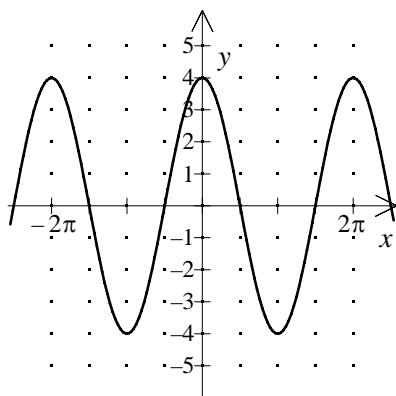


[8] _____

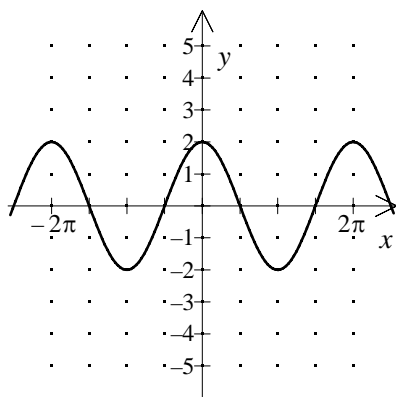
[7] _____



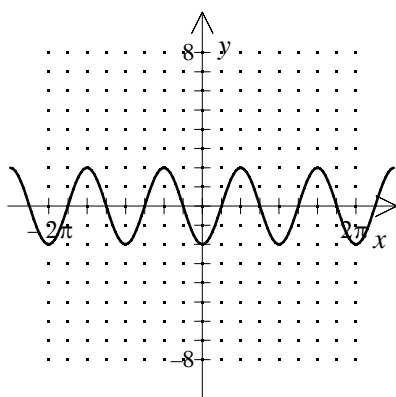
[1]



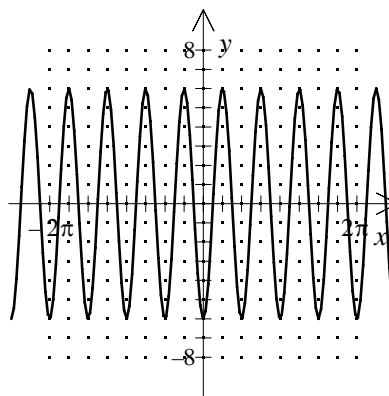
[2]



[3]



[4]



[5]

Check students' graphs. Max points:
(2.5, 9), (14.8, 9), min points:

[6] (8.75, 4), (21, 4)

[7] A

[8] D