**COSINE GRAPHS.**

1. The graph shown is ***y = cos(x)***

 On the axes below, draw the graphs:

 ***(a) y = 2cos(x)***

 ***(b) y = 2cos(x) + 5***



2. The graph shown is ***y = cos(x)***

 On the axes below, draw the graphs:

 ***(a) y = 3cos(x)***

 ***(b) y = 3cos(x) + 4***



3. What would the maximum and minimum y values be for the graph of

 ***y = 9cos(x) + 3***

 MAX = MIN =

4. Find an equation in the form ***y = A + Bcos(x)*** so that the

 maximum value is 14 and the minimum value is 6.

**COSINE GRAPHS.ANSWERS**

1. The graph shown is ***y = cos(x)***

 On the axes below, draw the graphs:

 ***(a) y = 2cos(x)***

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2. The graph shown is ***y = cos(x)***

 On the axes below, draw the graphs:

 ***(a) y = 3cos(x)***

 ***(b) y = 3cos(x) + 4***



3. What would the maximum and minimum y values be for the graph of

 ***y = 9cos(x) + 3***

 MAX = 12 MIN = 6

4. Find an equation in the form ***y = A + Bcos(x)*** so that the

 maximum value is 14 and the minimum value is 6.

 ***y = 4cos(x) + 10***