Graph:

1. \( y = \cos x \)

2. \( y = 3 \cos x \)

3. \( y = -\cos x \)

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

5. \( y = -\cos(2x) \)

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

<table>
<thead>
<tr>
<th>High Tide</th>
<th>Low Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:31 am</td>
<td>8:42 am</td>
</tr>
<tr>
<td>2:47 pm</td>
<td>8:55 pm</td>
</tr>
</tbody>
</table>

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.
Graph:

7. \( y = -2 \cos x \)

[A] [B] [C] [D]

8. \( y = -3 \cos x \)

[A] [B] [C] [D]

[7] ___

[8] ___
Check students’ graphs. Max points: (2.5, 9), (14.8, 9), min points: (8.75, 4), (21, 4)

A

B