3. [10 points] Below, you are given a table with some data about two functions, \( f(x) \) and \( g(x) \):

<table>
<thead>
<tr>
<th>( x )</th>
<th>0</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>( f(x) )</td>
<td>2</td>
<td>-4</td>
<td>3</td>
</tr>
<tr>
<td>( g(x) )</td>
<td>0</td>
<td>5</td>
<td>-1</td>
</tr>
</tbody>
</table>

In addition to this table, we are told the following facts:

- \( f(x) \) is an even function.
- \( g(x) \) is an odd function.
- There is a third function \( h(x) \). The graph of \( y = h(x) \) is obtained by shifting the graph of \( y = f(x) \) one unit to the right.

Use this information to answer the questions below.

a. [2 points] Compute \( h(1) \).

Answer: \( h(1) = \)___________________________.

b. [2 points] Compute \( f(-1) \).

Answer: \( f(-1) = \)___________________________.

c. [2 points] Compute \( g(2) + g(-2) \).

Answer: \( g(2) + g(-2) = \)___________________________.

d. [2 points] If \( j(x) = f(2x) + 1 \), compute the value of \( j(1) \).

Answer: \( j(1) = \)___________________________.

e. [2 points] If \( g(x) = k(-2x) \), compute the value of \( k(-4) \).

Answer: \( k(-4) = \)___________________________.