3. [10 points] The table below gives data about the popularity of some popular web browsers during 2011.\footnote{Source: http://www.w3schools.com/browsers/browsers_stats.asp}

- $M$ is the month of the year. (So, for example, $M = 2$ represents February 2011.)
- $F$ is the percent of internet users choosing Firefox.
- $C$ is the percent of internet users choosing Chrome.
- $S$ is the percent of internet users choosing Safari.

<table>
<thead>
<tr>
<th>$M$</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>$F$</td>
<td>42.4</td>
<td>42.9</td>
<td>42.2</td>
<td>40.6</td>
<td>38.7</td>
</tr>
<tr>
<td>$C$</td>
<td>24.1</td>
<td>25.6</td>
<td>27.9</td>
<td>30.3</td>
<td>32.3</td>
</tr>
<tr>
<td>$S$</td>
<td>4.1</td>
<td>4.1</td>
<td>3.7</td>
<td>3.8</td>
<td>4.2</td>
</tr>
</tbody>
</table>

a. [5 points] Which, if any, of the statements below are supported by the data in the table above? (Circle all such statements or circle None of these.)

- $S$ is a function of $C$.  
- $C$ is a function of $S$.  
- $F$ is a decreasing function of $M$.  
- $C$ is a linear function of $M$.  
- $C$ is a concave up function of $M$.  
- $C$ is a concave down function of $M$.  
- None of these

The popularity of another browser, Internet Explorer, is a function of the month $M$. Let $g(M)$ be the percent of all internet users who chose to use Internet Explorer in month $M$ of 2011.

b. [2 points] Write an equation that expresses the fact that in January of 2011, 26.6% of internet users chose to use Internet Explorer as their internet browser.

Answer: 

\[
g(2) = 26.6\%
\]

c. [3 points] Let $B(p)$ be the amount, in dollars, of monthly bonuses paid to Internet Explorer programmers when $p$ percent of internet users chose to use Internet Explorer. Interpret, in the context of this problem, the expression $B(g(2))$. (Use a complete sentence and include units.)

\[
B(g(2)) = B(26.6\%)
\]