

3. [10 points] The table below gives data about the popularity of some popular web browsers during 2011.¹

- 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.

M	2	4	6	8	10
F	42.4	42.9	42.2	40.6	38.7
C	24.1	25.6	27.9	30.3	32.3
S	4.1	4.1	3.7	3.8	4.2

- 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 .

F is a concave down function of M .

C is a function of S .

C is a concave up function of M .

F is a decreasing function of M .

C is a linear function of M .

C is an increasing function of M .

C is an exponential 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: _____

- 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.)

¹Source: http://www.w3schools.com/browsers/browsers_stats.asp