**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Interpreting Functions (F.IF.2)**

A company has developed a new video game console. After completing cost analysis and demand forecasts, the company has determined that the profit function for the new console is

$f\left(g\right)= -250g^{2}+70,000g-4,570,000 $where *g* is the number of consoles sold. What is the domain of the profit function?

|  |  |  |
| --- | --- | --- |
| Statement | Yes or No | Explain your thinking |
| All integers |  |  |
| All rational numbers |  |  |
| All integers greater than or equal to 0 |  |  |
| All rational numbers greater than or equal to 0 |  |  |

Source:

<https://assessmentresource.org/wp-content/uploads/2019/07/Integrated_Math_2_EOY_Item_Set.pdf>

Integrated Math II – EOY 2015, Item M40946