

## Unit 1: Functions - Quiz 2

Name \_\_\_\_\_ PER \_\_\_\_\_ DATE \_\_\_\_\_

FIFA1	FIFA2	AREID10

*Computation*

4	3	2	1
Response has no recall errors, <i>minimal</i> procedural errors* and no conceptual errors**	Response has no recall errors, minimal procedural errors and <i>minimal</i> conceptual errors	Response has no recall errors, but has several procedural errors <u>OR</u> several conceptual errors	Recall errors exist <u>OR</u> Steps taken are not related to problem <u>OR</u> Response left blank

*Written Responses*

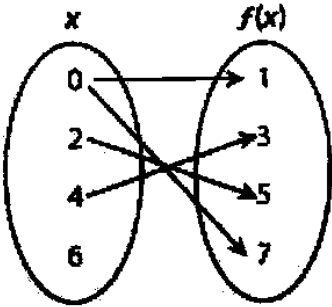
4	3	2	1
Response is written in a complete sentence and uses appropriate academic vocab	Response is written in a complete sentence, and minimal errors exist in use of academic vocab	Response is not written in a complete sentence <u>OR</u> no academic vocab	Concept of response is not related to problem <u>OR</u> Response is left blank

\*Procedural errors are mistakes made in the math

\*\*Conceptual errors are mistakes made in the steps one take

<b>BOX YOUR ANSWERS!!!</b>
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1. **(FIFA1)** Three relations are shown below. Determine which of these relations are functions. Justify why it is a function and why it is not a function in the space provide.

<p style="text-align: center;"><b>Relation 1</b></p> 	<hr/> <hr/> <hr/> <hr/> <hr/>												
<p style="text-align: center;"><b>Relation 2</b></p> <table border="1" data-bbox="362 913 578 1291"> <thead> <tr> <th><math>x</math></th> <th><math>y</math></th> </tr> </thead> <tbody> <tr> <td>-2</td> <td>5</td> </tr> <tr> <td>-1</td> <td>2</td> </tr> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>2</td> <td>5</td> </tr> </tbody> </table>	$x$	$y$	-2	5	-1	2	0	1	1	2	2	5	<hr/> <hr/> <hr/> <hr/> <hr/>
$x$	$y$												
-2	5												
-1	2												
0	1												
1	2												
2	5												
<p style="text-align: center;"><b>Relation 3</b></p> <p><math>\{(-2, 1), (1, -2), (0, 2), (1, 1), (2, -1)\}</math></p>	<hr/> <hr/> <hr/> <hr/> <hr/>												

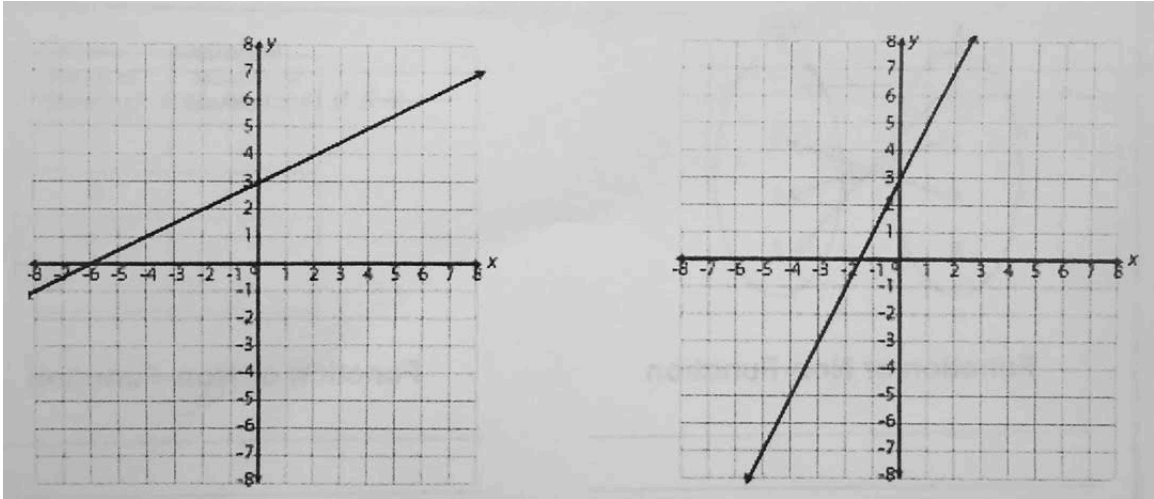
2. **(FIFA2)** Rita wrote the function below, which represents the number of minutes of exercise for each hour of sleep ( $x$ ).

$$f(x) = 5x - 10$$

Complete the following table. For each missing value, so the work that led to the new value.

<i>Hours of Sleep (<math>x</math>)</i>	<i>Minutes of Exercise <math>f(x)</math></i>
	0
5	
8	
	30

3. (AREID10) Which of the following functions shows the graph of  $y = \frac{1}{2}x + 3$ ?  
Justify why you chose the graph in the space below.



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