1. [14 points] The following table contains data for the functions $A$, $B$ and $C$. Assume that $A$ is invertible and $B$ is periodic with period 5.

<table>
<thead>
<tr>
<th>$x$</th>
<th>-3</th>
<th>-2</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>$A(x)$</td>
<td>4</td>
<td>-7</td>
<td>-1</td>
<td>2.3</td>
<td>0</td>
<td>-0.5</td>
</tr>
<tr>
<td>$B(x)$</td>
<td>6.1</td>
<td>5.4</td>
<td>-1</td>
<td>-7</td>
<td>6.1</td>
<td>5.4</td>
</tr>
<tr>
<td>$C(x)$</td>
<td>0</td>
<td>-1</td>
<td>4</td>
<td>3</td>
<td>0.5</td>
<td>0</td>
</tr>
</tbody>
</table>

For parts (a)-(c) you do not need to show any work, but you can receive partial credit for work shown if your final answer is incorrect.

a. [2 points] Circle all functions that could be decreasing on the interval $[1,3]$:

$A(x)$ $B(x)$ $C(x)$ NONE OF THEM

b. [5 points] Evaluate the following expressions. If there is not enough information to evaluate an expression, write ‘NEI’:

i. [1 point] $A^{-1}(0) =$

ii. [2 points] $B(-2) + B(7) =$

iii. [2 points] $B(C(2) + 0.5) =$

c. [3 points] Let $D(x) = \frac{A(x)}{C(x)}$. Circle all values of $x$ from the table that are not in the domain of $D$.

$-3$ $-2$ $0$ $1$ $2$ $3$

d. [4 points] Find all the $x$ values from the table that satisfy the following equation. Show all your work. If there is no solution, write “NO SOLUTION”.

$$B(A(x) - 1) = 5.4$$

$x =$