

10. [12 points] The following table gives values of several functions at different points. Use the table to answer the questions below.

$t$	-3	-2	-1	0	3	6
$A(t)$	-2	-1	-2	0	-2	-3
$B(t)$	-3	-1	-1	-3	3	-1
$C(t)$	0	-12	-1	0	0	2

- a. [4 points] Could any of  $A(t)$ ,  $B(t)$ , and  $C(t)$  be an odd function or an even function or can you be sure any of them are neither even nor odd? Circle all that apply. Answer this part of the problem independently of your answers for the other parts.

Could be even:  $A(t)$   $B(t)$   $C(t)$  None of these

Could be odd:  $A(t)$   $B(t)$   $C(t)$  None of these

Isn't even or odd:  $A(t)$   $B(t)$   $C(t)$  None of these

- b. [3 points] Could any of the functions in the table be periodic with period 8? Circle all that apply Answer this part of the problem independently of your answers for the other parts.

Could have period 8:  $A(t)$   $B(t)$   $C(t)$  None of these

- c. [5 points] Circle all of the following transformations of  $A(t)$  that **could** equal  $B(t)$ . If none of them could be  $B(t)$ , circle NONE.

•  $\frac{1}{2}A(3t + 3) - 2$

•  $2A(-\frac{1}{3}t) + 1$

•  $\frac{1}{2}A(t - 9)$

• NONE