

9. [8 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
$X(t)$	-2	-1	-2	0	-2	-3
$Y(t)$	-3	-12	-1	-2	0	-2
$Z(t)$	-0.5	-3	-2	-3	9	12

- a. [2 points] Could  $X(t)$  be an odd function or an even function or can you be sure it's neither even nor odd? Circle your answer.

could be even

could be odd

couldn't be even or odd

- b. [6 points] Which of the following transformations of  $X(t)$  could be  $Y(t)$ , and which could be  $Z(t)$ ? Write the letter(s) corresponding to your answers in the space provided. There could be more than one answer for each blank.

(A)  $\frac{1}{2}X(3t + 3) - 2$

(B)  $2X(-\frac{1}{3}t) + 1$

(C)  $X(-t + 3)$

(D)  $X(t - 1) - 1$

$Y(t)$  could be \_\_\_\_\_.

$Z(t)$  could be \_\_\_\_\_.