4. [11 points]

a. [5 points] Suppose that $f(y)$ is **odd** and is **periodic** of period 8 with domain $(-\infty, \infty)$. Some of its values are given in the table below.

y	0	1	2	3	4	5	6
$f(y)$	?	1.3	?	-2.9	?	?	2.2

Find the following values of f. If it is not possible to find the value specified using the information given, write NOT POSSIBLE. *You do not have to show any work for this problem.*

(i) $f(0) =$ _____

(ii) $f(-1) =$ _____

(iii) $f(2017) =$ _____

(iv) $f(2) =$ _____

(v) $f(4) =$ _____

b. [6 points] Suppose that $q(x) = 3e^{(x-5)^2}$ and $r(x) = e^{x^2/4}$. List the transformations you need to apply to the graph of $y = r(x)$ to transform it to that of $y = q(x)$. Fill each space with either a number or one of the phrases below, as appropriate.

SHIFT IT HORIZONTALLY TO THE RIGHT	SHIFT IT HORIZONTALLY TO THE LEFT	SHIFT IT VERTICALLY UPWARDS	SHIFT IT VERTICALLY DOWNWARDS
COMPRESS IT HORIZONTALLY	STRETCH IT HORIZONTALLY	COMPRESS IT VERTICALLY	STRETCH IT VERTICALLY

To get the graph of $y = q(x)$ starting with the graph of $y = r(x)$,

first, we _____ by _____,

and then we _____ by _____,

and then we _____ by _____.