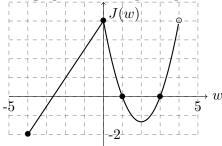
9. [15 points] Below is a graph of a function J(w) and a table of values for a function T(z). The grid on the graph is made up of squares of side length one.



\overline{z}	-3	-2	3	4	9
T(z)	9	3	1	3	c

a. [3 points] Suppose the average rate of change of T(z) between z=-3 and z=9 is 2.5. Find c.

c=

b. [4 points] Find all solutions to the equation

$$T(J(w)) = 3$$

using only the information about J(w) and T(z) above. Find exact answers if possible, or estimate using the grid if needed. Circle your final answer(s).

c. [8 points] J(w) is comprised of a linear piece and a quadratic piece. Find a piecewise-defined function for J(w). Circle your answer.