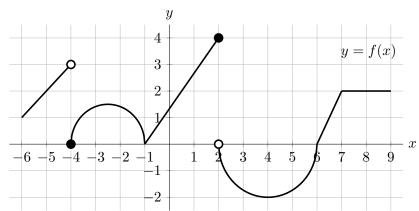
2. [9 points] The graph of f(x) shown below consists of lines and semicircles.



Use the graph above to calculate the answers to the following questions. Give your answers as <u>exact values</u>. You do not need to show work. If any of the answers can't be found with the information given, write "NEI".

a. [3 points] Find the average value of f(x) on [-4, 2].

Answer: _____

b. [2 points] Find the value of $\int_4^9 |f(z)| dz$.

Answer: $\int_{4}^{9} |f(z)| dz =$ ______

c. [2 points] Find the value of $4 < T \le 9$ such that $\int_4^T f(x) dx = 0$.

Answer: $T = \underline{\hspace{1cm}}$

d. [2 points] Find the value of $\int_{-8}^{-7} f(x+2) + 1 dx$.

Answer: $\int_{-8}^{-7} f(x+2) + 1 dx =$ _____