3. [10 points] Janice recently won $\$ 10,000$ through the Michigan lottery. She was so excited to have the extra spending money that she spent her winnings at a constant rate of $\$ 2,000$ per month. However, when she had $\$ 4,000$ remaining, she decided to curb her spending to make the money last, and she decreased her spending to a constant rate of $\$ 500$ per month until she spent all of her winnings. Let $W(m)$ be the remaining amount of money, in thousands of dollars, that Janice has left from her lottery winnings $m$ months after she wins the money.
a. [4 points] Draw a graph of your function $W(m)$. Be sure to label your axes (including units) along with any important points, including the beginning and end of different pieces of your graph.

b. [1 point] After how many months does she spend all of her winnings?
c. [5 points] Find a piecewise-defined formula for $W(m)$ on the appropriate domain in the context of the problem.

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W(m)= \begin{cases}\square & \text { if } \\ & \\ & \text { if }\end{cases}
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