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} 
\text{ } & \text{if } \\
\text{ } & \text{if } 
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