1. For what values of $x$ is $y = 0$?

2. Find all values of $x$ for which $y = 2$.

3. For what values of $x$ is $y$ positive?

4. For what values of $x$ is $y$ negative?

5. For what values of $x$ is the graph increasing?

6. For what values of $x$ is the graph decreasing?

7. What is the maximum value of $y$?

8. For what value of $x$ does the graph reach its maximum value?
9. What is the minimum value of $y$?

10. For what values of $x$ does the graph reach its minimum value?

11. Find the area of the region enclosed by the graph and the $x$-axis for $0 \leq x \leq 4$? Show your work.