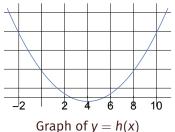
- 1. Find all critical values of $f(x) = x^3 9x^2 + 24x + 5$, and then use the First Derivative Test to classify each as a local max, local min, or neither.
- 2. The graph of y = h(x) is shown below. If $f(x) = h(x^2)$, find the intervals where f(x) is increasing and decreasing.



3. Create a function g(x) that has critical points at x = 0 and x = 2 where x = 2 is a local minimum but x = 0 is neither a local max nor a local min. Hint: Look at the graph of $y = x^3 - 2x^2$