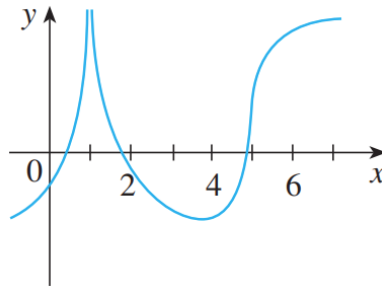


Exercise 43

The graph of f is given. State, with reasons, the numbers at which f is *not* differentiable.

**Solution**

The derivative is undefined at $x = 1$ because of the discontinuity in the graph. It's also undefined at $x = 5$ because of the vertical tangent.