Exercise 42
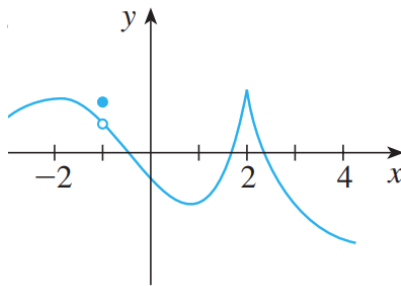
The graph of f is given. State, with reasons, the numbers at which f is *not* differentiable.

Solution

The derivative is undefined at $x = 2$ because of the kink in the graph. It's also undefined at $x = -1$ because of the discontinuity.