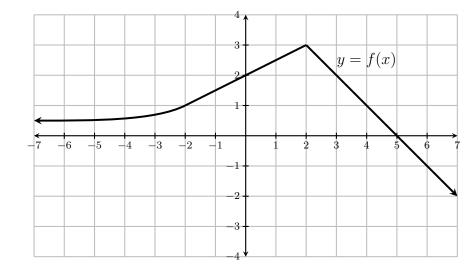
- 1. This problem concerns the function $f(x) = 4 + 2e^x \sqrt[3]{x^2}$.
 - (a) Find f'(x).
 - (b) State the intervals on which the function f(x) is differentiable.

- 2. The graph of a function f(x) is shown below.
 - (a) Using the same coordinate axis, sketch the graph of its derivative f'(x)
 - (b) At which x values is f(x) **not** differentiable?



- 1. This problem concerns the function $g(x) = 3\sqrt[3]{x^2} 6 + 2e^x$.
 - (a) Find g'(x).
 - (b) State the intervals on which the function g(x) is differentiable.

- 2. The graph of a function g(x) is shown below.
 - (a) Using the same coordinate axis, sketch the graph of its derivative g'(x)
 - (b) At which x value(s) is g(x) **not** differentiable?

