Math Worksheet: Graphs of Rational Functions(1)
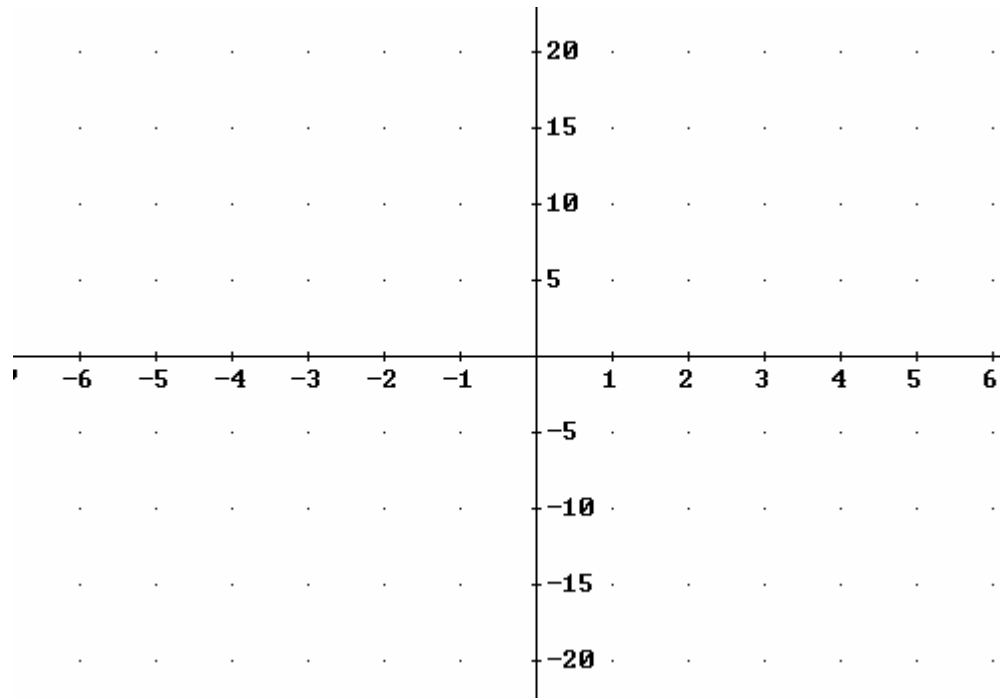
Given the function

$$f(x) = \frac{2x^2 - 8}{x^2 + 2x - 3}$$

1. **Find the domain** f **.**

2. **Find the horizontal and vertical asymptote of the graph of** f **.**

3. **Find the y-intercept and x intercept, if any, of the graph of** f **.**

4. **For what values of is** $f(x)$ **positive?**

5. Sketch the graph of f .