Graphing Functions

Example

1. Sketch the graph of $f(x) = \dfrac{2x}{x^2 + 1}$.

Problems

2. Sketch the graph of $f(x) = x^2 - x$.

3. Sketch the graph of $f(x) = \dfrac{1}{1 + x^2}$.

4. Sketch the graph of $f(x) = x + \dfrac{1}{2 + x}$.

5. Sketch the graph of $f(x) = -12x - \dfrac{9x^2}{2} + x^3$.

6. Sketch the graph of $f(x) = e^x + 2e^{-x}$.

7. Sketch the graph of $f(x) = x - x^3$.

8. Sketch the graph of $f(x) = \dfrac{x - 3}{x + 1}$.