

Determining Implicit Domains

Determine the implicit domain of each of the following:

1. $f(x) = 3x - 2$

2. $f(x) = x^2 - 3x + 5$

3. $f(x) = \frac{x^2 - 2x - 3}{x^2 - 5x + 6}$

4. $f(x) = \sqrt{5x - 3}$

5. $f(x) = \sqrt{\frac{x^2 - 2x - 3}{x^2 - 5x + 6}}$

6. $f(x) = \frac{1 + \sqrt{x + 1}}{1 - \sqrt{x - 2}}$

7. $f(x) = \sqrt{\frac{x - 1}{x + 2}} - 3$