Read directions carefully and show all your work. Partial credit will be assigned based upon the correctness, completeness, and clarity of your answers.

1. (6 pts) Find the domain and range of \( f(x) = \sqrt{x^2 - 9} \).

2. (4 pts) Determine if the function \( f(x) = \frac{1}{x} \) is even, odd, or neither. Justify your answer.