(1) Let \( f(x, y) = \ln(x + y - 1) \).
(a) Find and sketch the domain of \( f \).
(b) Find the range of \( f \).
(2) Find the level surfaces of \( f(x, y, z) = y^2 + z^2 - x^2 \).
(3) If \( f(x, y) = \frac{6x^2y}{2x^4 + y^4} \), does the limit \( \lim_{(x, y) \to (0, 0)} f(x, y) \) exist? Justify your answer.