



Here is the graph of $f(x, y) = \frac{1}{xy}$ with $|x| \leq 1$ and $|y| \leq 1$. The z -axis is compressed to give a better view. The *domain* of f is the whole xy -plane *except without* either the x -axis or the y -axis. Do you see why? What is the *range* of f ?