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**Exercise 1 (Graphics 2)**

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Plot the graph of the function

$$f(x, y) = \log \left( \frac{1}{\sqrt{x^2 + y^2}} \right)$$

for the domain  $[-\frac{1}{2}, \frac{1}{2}] \times [-\frac{1}{2}, \frac{1}{2}]$  using `mesh`.