ME 1. Use an appropriate change of variable to evaluate the integral \( \int \int_D \frac{1}{y} \, dA \), where

\( D \) is the region bounded by the lines \( y = x \), \( y = \frac{1}{2} x \), \( x + y = 3 \), and \( x + y = 6 \).

ME 2. Use an appropriate change of variable to evaluate the integral \( \int \int_D xy \, dA \),

where \( D \) is the region bounded by the curves \( y = x \), \( y = 2x \), \( y = \frac{1}{x} \), and

\[ y = \frac{3}{x} \.]