

Name: _____

Math 2030, Winter 2016, Quiz 10
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Suppose that x and y are functions of u and v in such a way that

$$\frac{\partial(x, y)}{\partial(u, v)} = u + v.$$

Suppose that R is the region in the (x, y) plane obtained by applying this transformation to the rectangle $2 \leq u \leq 5$, $1 \leq v \leq 3$. What is the area of R ?