

Name: _____

Math 2030, Winter 2016, Quiz 11
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R. Bruner

Let C be the curve parameterized by $\mathbf{r}(t) = (x(t), y(t)) = (t^2, 1 + t)$ for t in $[0, 1]$.
Find

1. $dx = x'(t)dt$
2. $dy = y'(t)dt$
3. the value of the line integral $\int_C y dx - x dy$.