MAT 3253 lecture (2

$$f: |R \rightarrow C$$
 $f(t) = u(t)t : v(t)$
 $\int_{a}^{b} f(t) dt \triangleq \int_{a}^{c} u(t) dt + i \int_{a}^{c} v(t) dt$

Work done / line integral

 $f(x,y) = (M(x,y), N(x,y))$
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