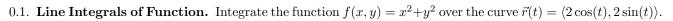
LINE INTEGRALS II



0.2. Line Integral of Vector Fields. Compute the line integral of the vector field $\langle -y, 1 \rangle$ over the parametric curve $\langle t, t \rangle$ where $0 \le t \le 1$.

0.3. **FTOLI.** Compute the line integral of the vector field $\langle 2xy^3 + 3y, 3(x+x^2y^2) \rangle$ over the curve $\langle \cos t, \sin t \rangle$ as t goes from 0 to π . Hint: Consider the function $f(x,y) = x^2y^3 + 3xy$