

1. What is the integral of the function  $f(x,y)$  over the curve  $C$  given by the parametric equations  $x=t^3-3t+1$ ,  $y=t^2-1$  from  $t=1$  to  $t=2$ ?

- A.  $1/3$
- B.  $4/3$
- C.  $5/3$
- D.  $2$

2. What is the integral of the function  $f(x,y)$  over the curve  $C$  given by the parametric equations  $x=t^3-3t+1$ ,  $y=t^2-1$  from  $t=1$  to  $t=2$ ?

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