```
% name-amlan nayak
% reg no-19BCD7143
% date-13/9/19
syms x y z t
f = [z x*y -y^2]
r = [t^2 t sqrt(t)]
1=0
u=1
dr1 = diff(r,t)
f1 = subs(f,[x,y,z],[r(1),r(2),r(3)])
nf = f1.*dr1
nf1 = sum(nf)
i = int(nf1,t,l,u)
f =
[z, x*y, -y^2]
r =
[t^2, t, t^{(1/2)}]
1 =
     0
u =
     1
dr1 =
[ 2*t, 1, 1/(2*t^(1/2))]
f1 =
[t^{(1/2)}, t^{3}, -t^{2}]
nf =
[2*t^{(3/2)}, t^{3}, -t^{(3/2)/2}]
nf1 =
```

$$t^3 + (3*t^3(3/2))/2$$

 $i =$

17/20

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