

Judv - UV- Svolu Los P. ET

Board Work

Evaluate the integral

1)
$$\int x^3 \ln(x) \ dx$$

2)
$$\int te^{t^2} dt$$

6)
$$\int_4^9 \frac{\ln(y)}{\sqrt{y}} \, dy$$

3) $\int (x-1)\sin(\pi x) dx$

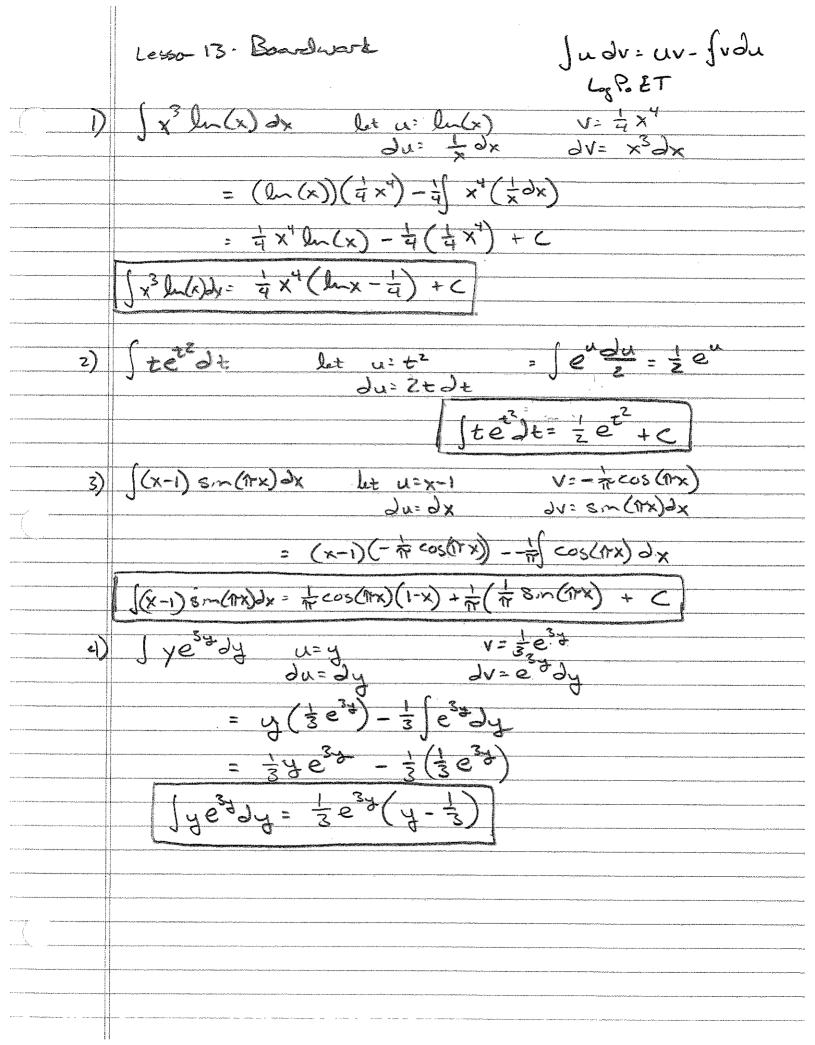
4)
$$\int ye^{3y} dy$$

5)
$$\int z \sin(2z) dz$$

 $v(t)=t^2e^{-t}$ meters per second after t seconds. How far will ☐ A particle that moves along a straight line has velocity it travel during the first t seconds?

☐ Find the volume of the solid formed by rotating the region bounded by the curves around the specified axis:

 $y = x^2 + 1, y = 1, and x = 2 : x-axis$



Judy = uv-Judu

