Math 172   Chapter 5 Thing   Name: _____

17 Jan 2017   Show Appropriate Work   Scaled to 10 points.

My hope is that you can finish this in class working in small groups. If you do not, please finish it and hand it in on Thursday. You may use the Math Learning Center.

Integrate.

1. ☐4 $\displaystyle\int \frac{[\ln{(2t)}]^3}{t}\, dt$

2. ☐4 $\displaystyle\int_0^{\pi/4} \cos 2\theta\, e^{\sin 2\theta}\, d\theta$

3. $\boxed{4}$ $\displaystyle\int \frac{dy}{2+y^2}$

4. $\boxed{4}$ $\displaystyle\int_{-1/2}^{0} \frac{12x}{\sqrt{1-4x^4}} \, dx$

5. $\boxed{4}$ $\displaystyle\int \frac{2+x}{\sqrt{9-x^2}} \, dx$