408L CLASS PROBLEMS

FEBRUARY 14TH, 2020

Problem 1. Find $\int \frac{\log(x)}{x^2} dx$.

Problem 2. Find $\int_0^{\frac{\pi}{3}} x \sec^2(x) dx$.

Problem 3. Find $\int \tan^{-1}(x) dx$.

Problem 4. Find $\int \cos(x) \sin(2x) dx$.

Problem 5. Find $\int \sin(2x)e^{\sin(x)}dx$.

Problem 6. Graph the parametric curve:

$$x = 16\sin^{3}(t)$$
$$y = 13\cos(t) - 5\cos(2t) - 2\cos(3t) - \cos(4t).$$