I These problems are not to hand in, but they may help refresh I concepts on the first homework.

// Work with those around you, and call me over for questions!

· Limits.

· Derivatives

3)
$$\frac{d}{dx}(e^{5x})$$

4)
$$\frac{d}{dx} \left(\times^{5 \cdot e} \right)$$

6)
$$\frac{d}{dx} \left(e^{\tan(e^x)} \right)$$

· Integrals & u-substitution

7)
$$\int_0^L e^{-2x} dx$$

(express the answer in terms of L)

8)
$$\int e^{x} (e^{x}+1)^{3} dx$$

9)
$$\int_0^1 e^{2x} \sqrt{1 + e^x} dx$$