Math 166 HW 1

$$\int_{\infty}^{\infty} (x) dx = 1 \rightarrow \int_{0}^{\infty} \frac{dx}{dx} dx = 1$$

$$CCB) \int_{0}^{\infty} \frac{x^{2}}{x^{2}} dx = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 1 \text{ res} \\ 2}}^{\infty} dx = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 2}}^{\infty} \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 2}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 2}}^{\infty} \frac{1}{2} dz$$

$$CCB) \int_{0}^{\infty} \frac{x^{2}}{x^{2}} dx = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 2}}^{\infty} \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} dz = \frac{1}{2} \sum_{\substack{1 \text{ res} \\ 3}}^{\infty} \frac{1}{2} \sum_{\substack{1 \text{ res}$$

3 M= 1st moment, have I parameter By $T = E(x) = \int_{x}^{\infty} f_{x}(x) dx = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{x^{3}}{\partial x} dx$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dz, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dz, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dz, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dz, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dz, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dz, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dx, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dx, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dx, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = dx, \quad \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = \frac{\partial g_{x}}{\partial x} \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ $Let_{x} = \int_{x}^{\infty} \frac{\partial g_{x}}{\partial x} dx = I$ Let_{x} Call Bm when M=X, so $\frac{751^4}{1808\sqrt{(3)}}=X$ $8m = \frac{751^4}{1805(3)} \text{ where } x = \frac{1}{15} x_5$ 4 if $\forall J, X_{5}=1$, looking at a Be, Be = 3 $\Theta = \frac{3n}{Be} - \frac{51}{1+e^{B}}, \frac{e^{B}}{1+e^{Be}} = \frac{3n}{Be} = \frac{Be}{3\cdot 13!}$ Using a graphing tool, $B_{e} = 3\cdot 13!$ $Using = \frac{3n}{4} = \frac{3n}{1+e^{B}} = \frac{3n}{1+e^{B}} = \frac{3n}{3} =$ For Bm, 5:nce \J; K=1, X=1, so Bm= 1805(3) Bc = 3, 131 Bm=3.152 Looking at the graph for B= 3. land B=3.5, and Knowing the graph for Be and Bm lies between them, the graphs for B=3 and B=3.5 peak around 1, so the graphs for Be and Bm should peak around 1 as well, so having an average of 1 for the samples is reasonable