ME FN 2450 | Fyon Malby 4081407 | HW 2

Suicircl | 
$$f(x_{i,h}) \approx f(x_{i}) + f'(x_{i})h + f''(x_{i})h^{2}$$
 $f(x) = e^{-x} + f'(x)e^{-x} \times = 1 \times = 0.25 \text{ h} = 0.75$ 
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apparente 1000: -3, -1, 4

Exercise3 
$$Y(1x) = \frac{w_0}{(D_0 E E L)} (-x^5 + 2L^2x^3 - L^4x)$$

$$E = 2.9 \times 10^4 p \text{ si}$$

$$E = 72.3 \text{ in 4}$$

$$L = 72.3 \text{ in 4}$$

$$W_0 = 3000 \text{ lbs}$$

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$$L = 15 \text{ ft}$$

Say dy = 
$$f(x) = \frac{w_0}{(120EIL)} \left(-5x^4 \cdot 6L^2x^2 \cdot L^4\right) = 0$$
  
 $f(x) = \frac{w_0}{(120EIL)} \left(-20x^3 + 12L^2x\right)$  Solve for  $x = \frac{w_0}{(120EIL)} \left(-20x^3 + 12L^2x\right)$