

Home Work # 16 5.1

#18

$$f(x) = \ln x \quad , \quad 3 \leq x \leq 10$$

→ first step $y = \frac{\ln x}{x}$ (in the calculator)

→ Second step and Calc then #7 $\int f(x) dx$

$$\int f(x) dx \quad \left. \frac{\ln x}{x} \right|_3^{10}$$

lower bound = 3 enter

upper bound = 10 enter

$$\int f(x) dx \quad \left. \frac{\ln x}{x} \right|_3^{10} = 2.047 = \text{Answer}$$