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2.
$$\mathcal{E} = \int (x) - \varphi(\lambda) = \int \frac{1}{|x|} \frac{1}{|x$$

3.
$$T = \int_{\alpha}^{b} f(x) dx$$

$$U = ((a, f(a)), (x_m, f(x_m)), (b, f(b)))$$
 $x_m = \frac{G1b}{2}$

$$f(x) \approx p_{z}(x) = \frac{(\alpha - p)(\alpha - xw)}{(x - p)(x - xw)} f(\alpha) + \frac{(x - a)(x - p)}{(x - a)(x - p)} f(xw) + \frac{(p - a)(p - xw)}{(p - a)(p - xw)} f(p)$$

$$\int_{b}^{a} \int_{b}^{c} (x) = \frac{(a-p)(a-x^{w})}{4(a)} \int_{a}^{a} \frac{(x^{w-a})(x^{w-p})^{\alpha}}{(x^{-\alpha})(x^{-p})^{\alpha}} + \frac{(x^{w-a})(x^{-p})^{\alpha}}{(x^{-\alpha})(x^{-p})^{\alpha}} + \frac{1(p-a)(p-x^{w})^{\alpha}}{(x^{-\alpha})(x^{-p})^{\alpha}} + \frac{1(p-a)(p-x^{w})^{\alpha}}{(x^{-p})^{\alpha}} + \frac{1(p$$

$$=\frac{1}{(2)}$$

$$=\frac{1}{100}\left(\frac{b^3}{2} - \frac{b^2}{2}(b+x_m) + x_mb^2 - \frac{a^3}{3} + \frac{a^2}{2}(b+x_m) = ax_mb\right) + \frac{1}{100}\left(\frac{x_m-a}{2}(x_m-b) + \frac{b^2}{2}(b-a)^3\right)$$

$$+\frac{f(b)}{(b-a)(b-x_m)}\cdot\left(\frac{b^3}{3}-\frac{b^2}{2}(a+x_m)+ax_mb-\frac{a^3}{3}+\frac{a^2}{2}(a+x_m)-x_ma^2\right)$$

























 $\frac{\int (a)}{(a-b)(a+m)} = -b^3 + 3 \times mb^2 - 2a^3 + 3a^2b + 3a^2x - 6a \times mb$ $= \left(\frac{1}{11} \right) \cdot \frac{2}{1} + \frac{5}{3(pta)} \cdot \frac{5}{ps} - 5a_3 + 3a_5 + 3a_5 \left(\frac{5}{a+p} \right) - 6a_7 \left(\frac{5}{a+p} \right)$ = (" ") -263 +3962 +362 - 493 +6926 + 393 + 3926 - 6962 $= ((1)) \qquad (b-a)^3$ D f(b) . 263 - 362 a - 362 xm + 63 + 32xm + 622 xm + 6abxm (1), $4b^3 - 6b^2a - 3b^2(a+b) + 2a^3 + 3a^2(a+b) - 6a^2(a+b) + 6ab(a+b)$ 2 (11 11) 4163 + 662a - 362a - 363 + 203 + 303 + 3036 - 603 - 6026 + 6026 + 6022 $\int b^{2} = \frac{1}{(a-b)(a-x^{2})} \frac{12}{(b-a)^{3}} - \frac{1}{(x^{2}-a)(x^{2}-b)} \frac{12}{(b-a)^{3}} + \frac{1}{(b-a)(b-x^{2})} \frac{12}{(b-a)^{3}}$ $f(\alpha) \frac{(b-\alpha)^3}{6(\alpha-b)^2} + \frac{4}{6} \frac{f(x_m)}{(b-\alpha)^2} (b-\alpha)^3 + \frac{f(b)(b-\alpha)^3}{(b-\alpha)^2 6}$ $= f(a) \frac{b-a}{6} + uf(xm)(b-a) + f(b)(b-a) \qquad h= \frac{b-a}{2}$ $= \frac{f(\alpha)}{3} + \frac{4f(x_m)}{3} + \frac{f(b)h}{3} = \frac{h}{3} (f(\alpha) + 4f(x_m) + f(b))$