5.22 (4)
1-8

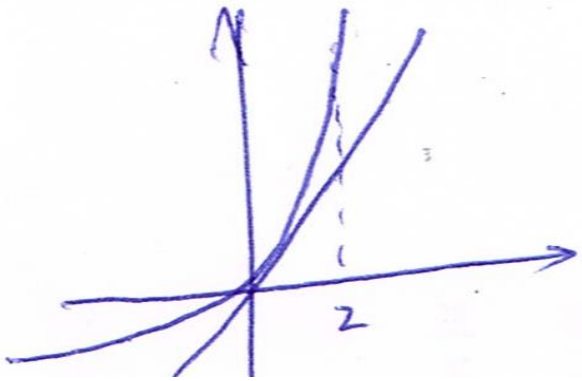
$$\left.\begin{aligned} f' &= 1 \\ f' &= 2e^{2x} - e^x \end{aligned}\right\} \quad 2e^{2x} - e^x = 1$$

$e^x = t$

$2t^2 - t - 1 = 0$

$t_1 = 1 \qquad t = -\frac{1}{2}$

$x = 0$



$$\int_0^2 (e^{2x} - e^x - x)\,dx = \frac{1}{2}e^{2x} - e^x - \frac{x^2}{2}\Big|_0^2 = \frac{1}{2}e^4 - e^2 - 2 - \frac{1}{2} + 1 =$$

$$= \frac{1}{2}e^4 - e^2 - \frac{3}{2}$$