a) 
$$L_{n}(x) = \frac{1}{n!} e^{x} \frac{d^{n}}{dx^{n}} (x^{n} e^{x})$$

$$L_{1}(x) = \frac{1}{n!} e^{x} \frac{d^{n}}{dx^{n}} (x^{n} e^{x})$$

$$L_{2}(x) = \frac{1}{n!} e^{x} \frac{d^{n}}{dx^{n}} (x^{n} e^{x})$$

$$= e^{x} [-x^{2} + 2xe^{x}]$$

$$\frac{d^{n}}{dx^{n}} (x^{n} e^{x}) = [-2x + 2]e^{x} - e^{x} [-x^{2} + 2xe^{x}]$$

$$= e^{x} [-x^{2} + 2x + 2]$$

$$= e^{x} [x^{2} - 4x + 2]$$

$$L_{2}(x) = \frac{1}{2} e^{x} [x^{2} - 4x + 2]$$

$$L_{3}(x) = \frac{1}{2} e^{x} [x^{2} - 4x + 2]$$

$$L_{4}(x) = \frac{1}{2} e^{x} [x^{2} - 4x + 2]$$

$$L_{5}(x) = \frac{1}{2} e^{x} [x^{2} - 4x + 2]$$

$$L_{7}(x) = \frac{1}{2} e^{x} [x^{2} - 4x + 2]$$

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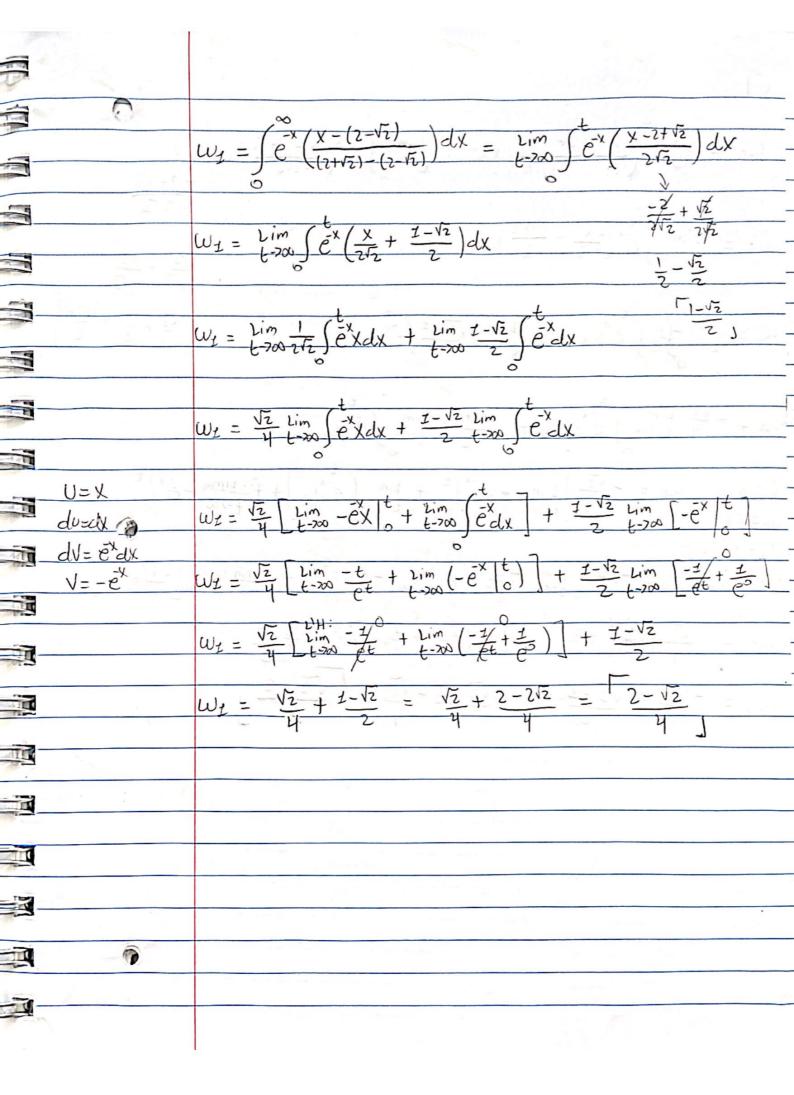
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$$L_{7}(x) = \frac{1}{2} e^{x} [x^{2$$

$$\begin{array}{c} C) \\ W_0 = \int e^{\frac{x}{2}} \left( \frac{x - (2 + \sqrt{2})}{(2 - 6)} \right) dx = \lim_{t \to \infty} \int e^{\frac{x}{2}} \left( \frac{x - 2 - \sqrt{2}}{-2 / 2} \right) dx \\ W_0 = \lim_{t \to \infty} \int e^{\frac{x}{2}} \left( -\frac{x}{1 / 2} + \frac{\sqrt{2} + z}{2} \right) dx \\ W_0 = \lim_{t \to \infty} \int e^{\frac{x}{2}} \left( -\frac{x}{1 / 2} + \frac{\sqrt{2} + z}{2} \right) dx \\ W_0 = \lim_{t \to \infty} \int e^{\frac{x}{2}} \left( -\frac{x}{1 / 2} + \frac{\sqrt{2} + z}{2} \right) dx \\ W_0 = \lim_{t \to \infty} \int e^{\frac{x}{2}} x dx + \lim_{t \to \infty} \frac{\sqrt{2} + t}{2} \int e^{\frac{x}{2}} dx \\ W_0 = \lim_{t \to \infty} \int e^{\frac{x}{2}} x dx + \lim_{t \to \infty} \frac{\sqrt{2} + t}{2} \int e^{\frac{x}{2}} dx \\ W_0 = -\frac{\sqrt{2}}{4} \lim_{t \to \infty} \int e^{\frac{x}{2}} x dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx \\ W_0 = -\frac{\sqrt{2}}{4} \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx \\ W_0 = -\frac{\sqrt{2}}{4} \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx \\ W_0 = -\frac{\sqrt{2}}{4} \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx \\ W_0 = -\frac{\sqrt{2}}{4} \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int e^{\frac{x}{2}} dx \\ W_0 = -\frac{\sqrt{2}}{4} \lim_{t \to \infty} \int e^{\frac{x}{2}} dx + \lim_{t \to \infty} \int$$



$$\int_{120}^{\infty} \int_{120}^{\infty} x \, dx = \int_{120}^{\infty} \int_{120}^{\infty} (x_1) = 6$$
Emplezams mostrando que  $\int_{120}^{\infty} x^2 \, dx = 6$ :

Partimos de:

$$\int_{120}^{\infty} \int_{120}^{\infty} x^2 \, dx = \int_{120}^{\infty} \int_{120}^{\infty} (x_1) \, dx = \int_{120}^{\infty} \int_{120}^{\infty} \int_{120}^{\infty} (x_1) \, dx = \int_{120}^{\infty} \int_{120}$$

(塩+は)(10-35元)+(1-塩)(10+35元) 5/2-7+10-7/2+10+7/2-3/2-7  $\frac{1}{20-14} = 6$   $\frac{1}{100}$   $\frac{1}{100}$   $\frac{1}{100}$   $\frac{1}{100}$ Como  $\int_{-\infty}^{\infty} e^{x} dx = 6$  y  $\sum_{i=0}^{\infty} w_{i} f(x_{i}) = 6$ -Se comple que:  $\int_{e^{X}dx}^{\infty} = \sum_{i=0}^{4} w_{i} f(x_{i}) = G$ T TI M 10 0