



$$L_{g} = \int I_{g}(t) dt = \int e^{-t} I_{cob}(2t) J_{t}(t) dt$$

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ES5

Now every stabile

$$\frac{x(n)}{h_1} = \frac{h_2}{h_2} = \frac{x + h_1 + h_2(n)}{h_1(n)}$$

$$\frac{x(n)}{h_1(n)} = \frac{h_2(n)}{h_2(n)} = \frac{h_2(n)}{h_2(n)}$$

$$\frac{h_1(n)}{h_2(n)} = \frac{h_2(n)}{h_2(n)}$$

$$\frac{h_2(n)}{h_2(n)} = \frac{a^n + h_2(n)}{h_2(n)}, \quad |a| < 1$$

1) USCITA
$$g(n) = ?$$

 $h = h_1 + h_2$
 $h = h_1 + h_2$

$$X * h_2(n) = [d(n) - a d(n-1)] * h_2(n)$$

$$= h_2(n) - a h_2(n-1)$$

$$= a^n (d_0(n)) - a \cdot a^{n-1} d_0(n-1)$$

$$= a^n (f_0(n)) - f_0(n-1)) = a^n d(n)$$

$$= a^n S(n) = d^n S(n)$$

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$$= a^n (n) = h_1(n) = sin(8n)$$