مبابن مدادهای الکریکی و الکرونیکی

ملسم 17م

 $H(s) = \frac{1}{(s+a)(s+b)^n((s+c)^2+d^2)((s+e)^2+q^2)^2}$ 

 $+\frac{k_{42}}{((S+e)+jg)^2}+\frac{k_{42}}{((S+e)-jg)^2}$ 

 $\frac{9}{\text{JL}}: H(s) = \frac{s^2 + 3s + 3}{(s+1)^3}$ 

 $\times (S+1)^3 = S^2 + 3S + 3 = A(S+1)^2 + B(S+1) + C$  25

S=-1 C=1

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Year. Month. Date.

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$S = -1$$
  $B = 1$   $(e, d, e, d)$   $A = 2 \rightarrow A = 1$ 

$$(S+b)^n = \frac{k_1}{(S+b)^2} + \frac{k_2}{(S+b)^n}$$

$$\sum_{i=1}^{n} k_{n-i} = \left[ \frac{1}{i!} \frac{d^{i}}{ds^{i}} \left[ (s+b)^{n} H(s) \right] \right]_{s=-b}$$

$$\frac{15}{\text{S(S+30)}} = \frac{12(S+30)}{S(S+5)(S+3)^2}$$

$$H(s) = A + B + C + D$$
 $S+5+(S+3)$   $(S+3)^2$ 

$$A = (H(s).S)_{s=0} = \frac{12 \times 30}{5 \times 9} = 8$$

$$\rightarrow B = [H(s), (S+5)] = 12(25) = -15$$
  
 $S=-5 = (-5)(4)$ 

$$\int \frac{1}{(s+6)(s+3)} = \frac{100(s+3)}{(s+6)(s^2+6s+25)}$$

$$H(s) = A + B + B$$

$$S+6 + (S+3)+4j + S+3-4j$$

$$\rightarrow B = H(s)(S+3+4i)$$

$$-+B = \frac{50}{3-4i} = \frac{50}{54-53^{\circ}} = \frac{10}{4-53^{\circ}}$$

$$3-4j \rightarrow 5$$
 ماسئ زاویہای  $= \frac{4}{3}$ 

$$\Rightarrow B = 10.4.53^{\circ} - B = 10.6.-53^{\circ}$$

$$-+ H(s) = -12 + 10 £ 53° + 10 £ -53°$$

$$-12e^{-6t}u(t) = (-3-4j)t$$

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اگر جواب به ا	$\frac{k_2}{k_2} + \frac{k_2}{k_2}$
٠	S+C+jd $S+C-jd$
لايلاس معلو 🚤	: $2 k_2 e^{-ct}\cos(dt+4k_2)$ u(t)
، بىلكى مئال قىل	10 4 53° Uyhondin 2x10xe <sup>-3t</sup> cos(4t+6) (S+3)+4j
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