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## Example 3

$$\frac{d^n}{dt^n}f(t) \Longrightarrow (j\omega)^n F(\omega)$$

$$V_{in}(w) = \sqrt{\left(\frac{1}{2} + \frac{3}{2} + \frac{3}{2}$$

$$V_1 = -15$$
  $V_2 = 15$ 

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$Vout(t) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{15}{5w+2} \int_{-\infty}^{\infty} \frac{15}{5w+4}$	
JW+2 JW+4 (	
= 15 (e-2t_e-4t) No(t).	