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$$V_{out}(\omega) = \underbrace{j2\omega} V_{in}(\omega)$$

$$\underbrace{4 + j2\omega}$$

$$\frac{jw}{j26071} \qquad jw + 2$$

$$\frac{1}{12\omega} = \frac{1}{12\omega} = \frac{1}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$$

$$r_1 = -10$$
 $r_2 = +15$



$$V(t) = V_{SUL}(t) = \sqrt{\frac{1}{2}} \left\{ \frac{1}{\sqrt{N+3}} - \frac{10}{\sqrt{N+2}} \right\}$$

$$= 15e^{-3t} \text{ Mo(t)} - 10e^{-2t} \text{ Mo(t)}$$

$$= \left[15e^{-3t} - 10e^{-2t} \right] \text{ Mo(t)}.$$