EX 
$$V_{5} = 1 \text{ Vrms}, R_{5} = 1 \text{ ms}$$
 $R_{L} = 10 \text{ J}$ 
 $1 \times 10^{6} \text{ N}$ 
 $1$ 

Remember max power transfer? RTH = RL (X106 >77 10 severe mismatch add amplifier in between Source & load. 1 × 106 € 10s Avo = IV/V  $Ri = 1 m \Omega$ Ro = 1052

$$\frac{v_0}{v_s} = \frac{1}{2} \left(\frac{1}{2}\right) \left(\frac{1}{2}\right)$$

$$V_0 = 0.25 \, \text{Vrms}$$

$$P_{L} = \frac{\sqrt{2}}{10} = \frac{(.25)^{2}}{10} = 6.25 \text{ mW}$$

$$Av = \frac{10}{100} = 0.25 = 0.25 \text{ V}$$

$$\frac{1}{100} = 0.25 \text{ V}$$

$$= -12.04 \text{ dB}$$

$$A_{P} = \frac{P_{0}}{P_{i}} = \frac{6.25 \times 10^{-3}}{(0.5)^{2}/(1\times10^{-6})}$$

$$Ap = 6.25 \times 10^{-3} = 25 \times 10^{3} \text{ W}$$

$$0.25 \times 10^{-6} \text{ W}$$

$$0$$

ANO3 = 1 1//

$$V_{i,3} = 100 V_{i,2} \left( \frac{100}{100 \times 10^3} \right) = 9.90 V_{i,3}$$

$$V_{i,1} = V_{i,1} \left( \frac{100 \times 10^3}{100 \times 10^3} \right) = 9.90 V_{i,1}$$

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50 = 745.29 V 55 V