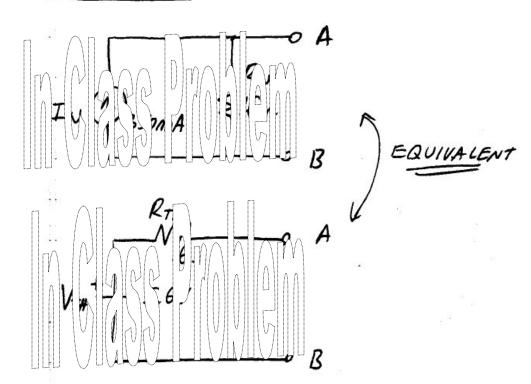


SUMMARY



$$V_{TH} = (V_{VV}) = (0.35A)$$

$$V_{VV} = (0.35A)$$

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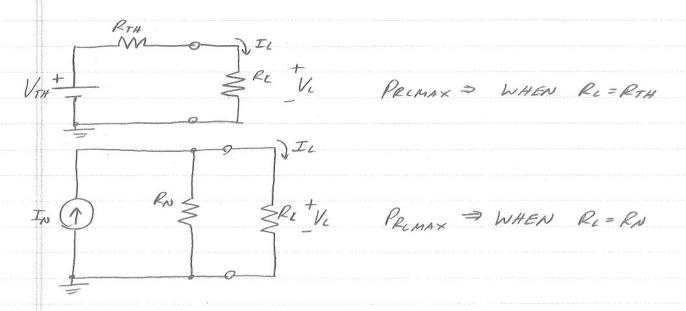
A LOAD WILL RECEIVE MAXIMUM POWER

FROM A LINEAR BILATERAL DC NETWORK

WHEN ITS TOTAL RESISTIVE VALUE IS EXACTLY

EQUAL TO THE THÉVENIN RESISTANCE OF THE

NETWORK AS "SEEN" BY THE LOAD.



$$V_{L} = V_{TH} \begin{pmatrix} R_{L} \\ R_{L} + R_{TH} \end{pmatrix}$$

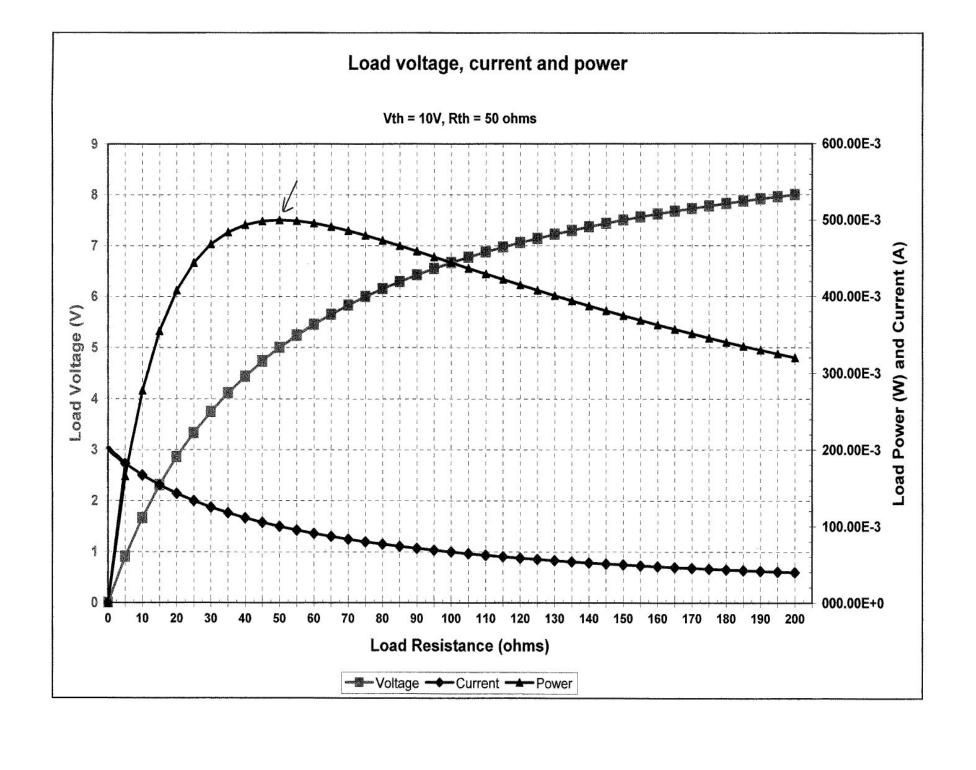
$$V_{L} = 10 \begin{pmatrix} R_{L} \\ R_{L} + 50 \end{pmatrix} \qquad (1)$$

$$I_{L} = V_{L} \qquad (2) \qquad P(OT = FOR)$$

$$R_{L} \qquad O_{n} \leq R_{L} \leq 200$$

$$P_{L} = (I_{L})^{2} R_{L} \qquad (3)$$

Vth	10	V		_0.2
Rth	50	ohms		(J. A.
			The state of the s	***
RL	VL	IL j	PL	
ohms	Volts	Amps 🥒	Watts	
0	000.00E+0	000.00E+0	000.00E+0	
5	909.09E-3	181.82E-3	165.29E-3	
10	1.67E+0	166.67E-3	277.78E-3	
15	2.31E+0	153.85E-3	355.03E-3	
20	2.86E+0	142.86E-3	408.16E-3	
25	3.33E+0	133.33E-3	444.44E-3	
30	3.75E+0	125.00E-3	468.75E-3	
35	4.12E+0	117.65E-3	484.43E-3	
40	4.44E+0	111.11E-3	493.83E-3	
45	4.74E+0	105.26E-3	498.61E-3	
50	5.00E+0	100.00E-3	500.00E-3	
55	5.24E+0	95.24E-3	498.87E-3	
60	5.45E+0	90.91E-3	495.87E-3	
65	5.65E+0	86.96E-3	491.49E-3	
70	5.83E+0	83.33E-3	486.11E-3	
75	6.00E+0	80.00E-3	480.00E-3	
80	6.15E+0	76.92E-3	473.37E-3	
85	6.30E+0	74.07E-3	466.39E-3	
90	6.43E+0	71.43E-3		
95	6.55E+0	68.97E-3	A4447074444	
100	6.67E+0	66.67E-3		
105	6.77E+0	64.52E-3		
110	6.88E+0	62.50E-3		
115	6.97E+0	60.61E-3		
120	7.06E+0	58.82E-3	415.22E-3	
125	7.14E+0	57.14E-3	The second secon	
130	7.22E+0	55.56E-3	401.23E-3	
135	7.30E+0	54.05E-3	394.45E-3	
140	7.37E+0	52.63E-3	387.81E-3	
145	7.44E+0	51.28E-3	381.33E-3	
150	7.50E+0	50.00E-3	375.00E-3	
155	7.56E+0	48.78E-3	368.83E-3	
160	7.62E+0	47.62E-3	362.81E-3	
165	7.67E+0	46.51E-3	356.95E-3	
170	7.73E+0	45.45E-3	351.24E-3	
175	7.78E+0	44.44E-3	345.68E-3	
180	7.83E+0	43.48E-3	340.26E-3	
185	7.87E+0	42.55E-3	334.99E-3	
190	7.92E+0	41.67E-3	329.86E-3	
195	7.96E+0	40.82E-3	324.86E-3	
200	8.00E+0	40.00E-3	320.00E-3	



Find the value of R for maximum the mosimum pouer to R. - FIND VTH, RTH - SET R=RTH + CALCULATE PLANEX

VTH THEVENIN EQUIV. /PLMAX = 2.2W/