Technical Education

Name:

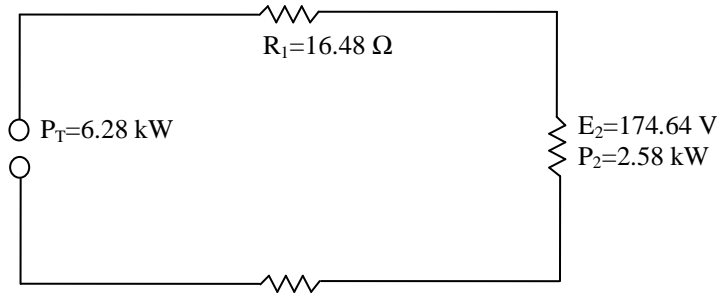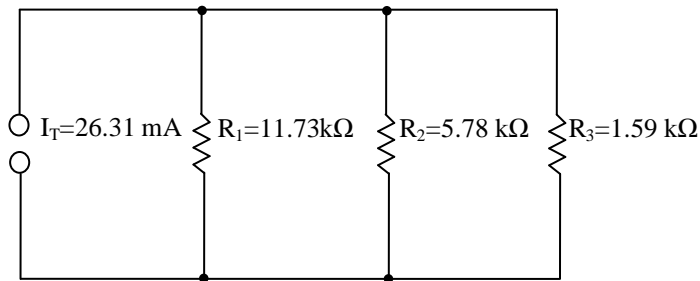Western Technical-Commercial School   Date: Section

Culminating Series & Parallel Circuit Problems

Show order of operations, formulas, substitution, units, and all rough work calculations using appropriate units of measure, 2 decimal places, with all answers circled. Half mark for the correct answer, the other half for all work shown. **One Mark** for properly & correctly double-checking, using a formula not yet used.

$R_1 = 16.48\ \Omega$

$P_T = 6.28\ kW$

$E_2 = 174.64\ V$
$P_2 = 2.58\ kW$

		Series/Parallel laws			
		L_1	L_2	L_3	L_T
Ohms Law	E v				
	I A				
	R Ω				
	P w				

$I_T = 26.31\ mA$ $R_1 = 11.73\ k\Omega$ $R_2 = 5.78\ k\Omega$ $R_3 = 1.59\ k\Omega$

		Series/Parallel laws			
		L_1	L_2	L_3	L_T
Ohms Law	E v				
	I A				
	R Ω				
	P w				