

Problem	Answers
1	$e_c = -5.9\text{ }^\circ\text{C}$
2	e_r (no radiation shield) = $3.73\text{ }^\circ\text{C}$ e_r (with radiation shield $\epsilon_s = 0.5$) = $0.87\text{ }^\circ\text{C}$
3	error = $29.6\text{ }^\circ\text{C}$ $T_t - T_\infty = 37\text{ }^\circ\text{C}$
4	time constant $\tau = 9.85\text{ s}$
5	$A = 0.002109$, $B = 7.97\text{E-}5$, $C = 6.545\text{E-}7$
6	T (RTD) = $125\text{ }^\circ\text{C}$
7	$N = 4$ Thermocouples