

ENGG 156 - Project 2 Interfacing a Temperature Sensor								
Temp Sensor Calculations - Carson, Castro, Kempis								
	T0	293.15						
	b	3578.825						
	R0	1227.196147						
	Temperature [C]	Temperature [K]	Resistance	Input Voltage	ADC Output	Code Resistance	Code Temp	Difference
	-45	228.15	39759.27266	4.8773	F9B8	39781	228.142	-0.008
	-25	248.15	11229.95883	4.5912	EB11	11231.2	248.148	-0.002
	-5	268.15	3830.199097	3.9648	CB00	3830.47	268.149	-0.001
	15	288.15	1516.748766	3.0133	9A48	1516.8	288.149	-0.001
	35	308.15	677.3736071	2.0191	6761	677.374	308.15	0
	55	328.15	333.7464964	1.251	400F	333.747	328.15	0
	75	348.15	178.3711438	0.756855	26C0	178.369	348.15	0
	90	363.15	116.6604009	0.5223629	1ABE	116.649	363.154	0.004
	105	378.15	78.91354199	0.3657084	12B9	78.9075	378.153	0.003
	120	393.15	54.99641164	0.2606474	0D58	54.9912	393.154	0.004
			Test Inverse					
			271.7482493					