

11. Correct. The answer is true. Translating 1100 degrees F into Kelvin: $K1 = 273 + 5/9 * (1100 - 32) = 866.333$. Translating 90 degrees F into Kelvin: $K2 = 273 + 5/9 * (90 - 32) = 305.222$. The maximum efficiency = $1 - K2/K1 = 1 - 305.222/866.333 = 0.647$.