

Ejercicio 1, pag 72, FQ, FP2-1. Larrauri.

Expresar la temperatura de  $0^{\circ}\text{F}$  en las demás escalas termométricas.

$$\frac{T_c}{100} = \frac{T_R}{80} = \frac{T_F - 32}{180} = \frac{T_K - 273}{100}$$

$$\frac{T_c}{5} = \frac{T_R}{1} = \frac{T_F - 32}{9} = \frac{T_K - 273}{5}$$

grados  $^{\circ}\text{C}$

$$\frac{T_c}{5} = \frac{0 - 32}{9}, \quad 9T_c = -160, \quad T_c = -\frac{160}{9} = -\underline{\underline{17.18^{\circ}\text{C}}}$$

grados  $^{\circ}\text{R}$

$$\frac{T_R}{1} = \frac{0 - 32}{9}, \quad 9T_R = -128, \quad T_R = -\frac{128}{9} = -\underline{\underline{14.22^{\circ}\text{R}}}$$

grados  $^{\circ}\text{K}$

$$\frac{0 - 32}{9} = \frac{T_K - 273}{5}, \quad -160 = 9T_K - 2057$$

$$9T_K = 2297, \quad T_K = \frac{2297}{9} = \underline{\underline{255.22^\circ K}}$$