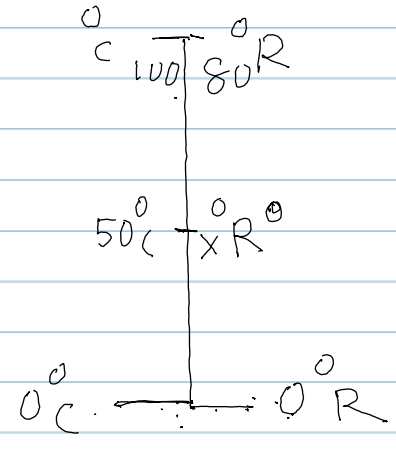


列氏溫標將純水冰點定為  $0^{\circ}R$ ，沸點定為  $80^{\circ}R$ ，則攝氏溫度  $50^{\circ}C$  相當多少  $^{\circ}R$ ？(2) 並依此推算二種溫標的換算公式。(3) 依換算公式推算攝氏溫標與華氏溫標的換算公式。



$$\frac{50 - 0}{100 - 0} = \frac{x - 0}{80 - 0}$$

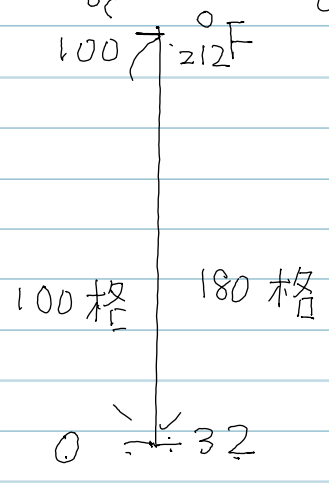
$$\frac{1}{2} = \frac{x}{80}$$

$$2x = 80$$

(2)  $100^{\circ}C = 80^{\circ}R$   $x = 40^{\circ}R$

$$1^{\circ}C = 0.8^{\circ}R$$

$$1^{\circ}R = \frac{1}{0.8}^{\circ}C = 1.25^{\circ}C$$



$$^{\circ}C = \frac{100}{180} (^{\circ}F - 32)$$

$$^{\circ}C = \frac{5}{9} (^{\circ}F - 32)$$

$$\frac{9}{5}^{\circ}C + 32 = ^{\circ}F$$

$$T_F = \frac{9}{5} T_C + 32$$

$$T_C = \frac{5}{9} (T_F - 32)$$