

Problema 1103: Realiza los siguientes cambio de unidades:

- a) 25°C (a °F)
- b) 100°F (a °C)
- c) 0°F (a °C)
- d) 100°C (a °F)

a) 25°C (a °F)

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

$$\frac{25}{100} = \frac{T(^{\circ}\text{F}) - 32}{180}$$

$$T(^{\circ}\text{F}) = \frac{25 \cdot 180}{100} + 32 = \underline{\underline{77^{\circ}\text{F}}}$$

b) 100°F (a °C)

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

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

$$T(^{\circ}\text{C}) = \frac{100 - 32}{180} \cdot 100 = \underline{\underline{37,78^{\circ}\text{C}}}$$

c) 0°F (a °C)

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

$$\frac{T(^{\circ}\text{C})}{100} = \frac{0 - 32}{180}$$

$$T(^{\circ}\text{C}) = \frac{-32}{180} \cdot 100 = \underline{\underline{-17,78^{\circ}\text{C}}}$$

d) 100°C (a °F)

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

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

$$T(^{\circ}\text{F}) = \frac{100 \cdot 180}{100} + 32 = \underline{\underline{212^{\circ}\text{F}}}$$