

UNIVERSIDAD DE SAN CARLOS DE GUATEMALA
FACULTAD DE INGENIERIA
AREA DE CIENCIAS
QUIMICA GENERAL 1
SECCION J-
INGA. BERTA DE LEON MOLINA

TAREA DE TEMPERATURA

GRUPO #8	
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GUATEMALA 05 DE AGOSTO DE 2023

45) Se decide establecer una nueva escala

mercurio	$x (^{\circ}\text{C})$	$y (^{\circ}\text{N})$
ebullición	356,9	100°
fusión	-38,9	0°

$$m = \frac{\Delta y}{\Delta x} = \frac{100 - 0}{356,9 + 38,9} = \frac{500}{1979}$$

$$y - 0 = \frac{500}{1979} (x + 38,9)$$

$$y = \frac{500}{1979} x + 9,8282$$

$$a) M^{\circ} = \frac{500}{1979} (100) + 9,8282$$

$$b) M^{\circ} = \frac{500}{1979} (-273,15) + 9,8282$$

$$\underline{\underline{M^{\circ} = 35,09^{\circ}\text{M}}}$$

$$\underline{\underline{M^{\circ} = -59,18^{\circ}\text{M}}}$$

46)

$x (^{\circ}\text{C})$	$y (^{\circ}\text{A})$
-33,35°	100°A
-77,75°	0°A

$$a) 100^{\circ}\text{A} + (-33,35^{\circ}\text{C}) = 133,35^{\circ}\text{A}$$

$$133,35^{\circ}\text{A} + 100^{\circ}\text{A} = \underline{\underline{233,35^{\circ}\text{A}}}$$

$$b) 273,15 - (-77,75^{\circ}\text{C}) = -195,40^{\circ}\text{C}$$

$$0^{\circ}\text{A} + (-195,40^{\circ}\text{A}) = \underline{\underline{-195,40^{\circ}\text{A}}}$$