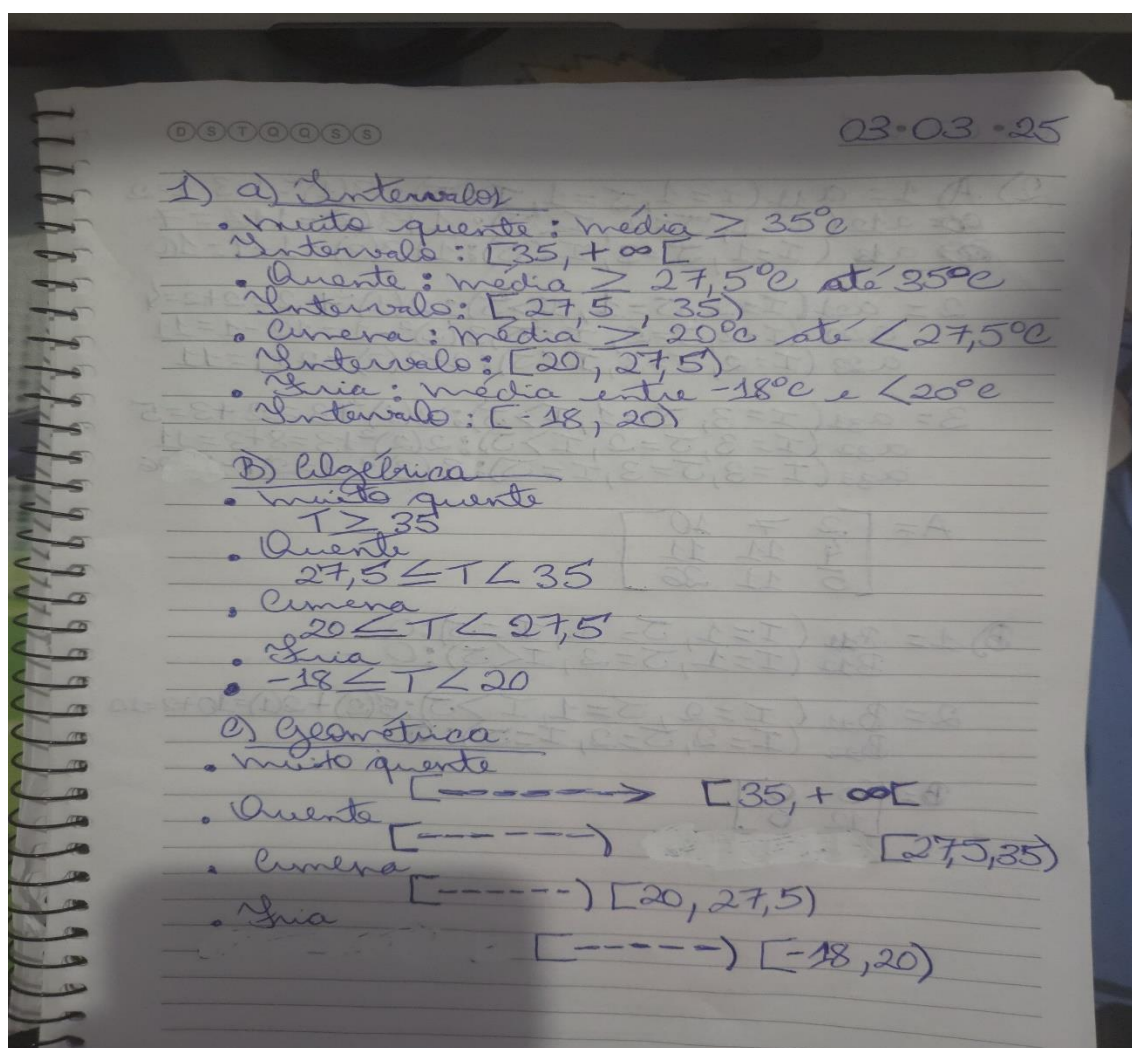


COMPONENTE CURRICULAR:	FUNDAMENTOS DE MATEMÁTICA
NOME COMPLETO DO ALUNO:	VINÍCIUS VIEIRA UCHITA
RA:	10727953

1.



2.

03.03.25

(D S T Q Q S S)

2) A) $1 = a_{11} (I=1, J=1, I=J): 3(1)^2 - 1 = 3 - 1 = 2$

$a_{12} (I=1, J=2, I < J): 1 + 3(2) = 1 + 6 = 7$

$a_{13} (I=1, J=3, I < J): 1 + 3(3) = 1 + 9 = 10$

$2 = a_{21} (I=2, J=1, I > J): 2(1)^2 + 2 = 2 + 2 = 4$

$a_{22} (I=2, J=2, I=J): 3(2)^2 - 1 = 12 - 1 = 11$

$a_{23} (I=2, J=3, I < J): 2 + 3(3) = 2 + 9 = 11$

$3 = a_{31} (I=3, J=1, I > J): 2(1)^2 + 3 = 2 + 3 = 5$

$a_{32} (I=3, J=2, I > J): 2(2)^2 + 3 = 8 + 3 = 11$

$a_{33} (I=3, J=3, I=J): 3(3)^2 - 1 = 27 - 1 = 26$

$$A = \begin{bmatrix} 2 & 7 & 10 \\ 4 & 11 & 11 \\ 5 & 11 & 26 \end{bmatrix}$$

B) $1 = b_{11} (I=1, J=1, I=J): 0$

$b_{12} (I=1, J=2, I < J): 0$

$2 = b_{21} (I=2, J=1, I > J): 5(2) + 2(1) = 10 + 2 = 12$

$b_{22} (I=2, J=2, I=J): 0$

$$B = \begin{bmatrix} 0 & 0 \\ 12 & 0 \end{bmatrix}$$