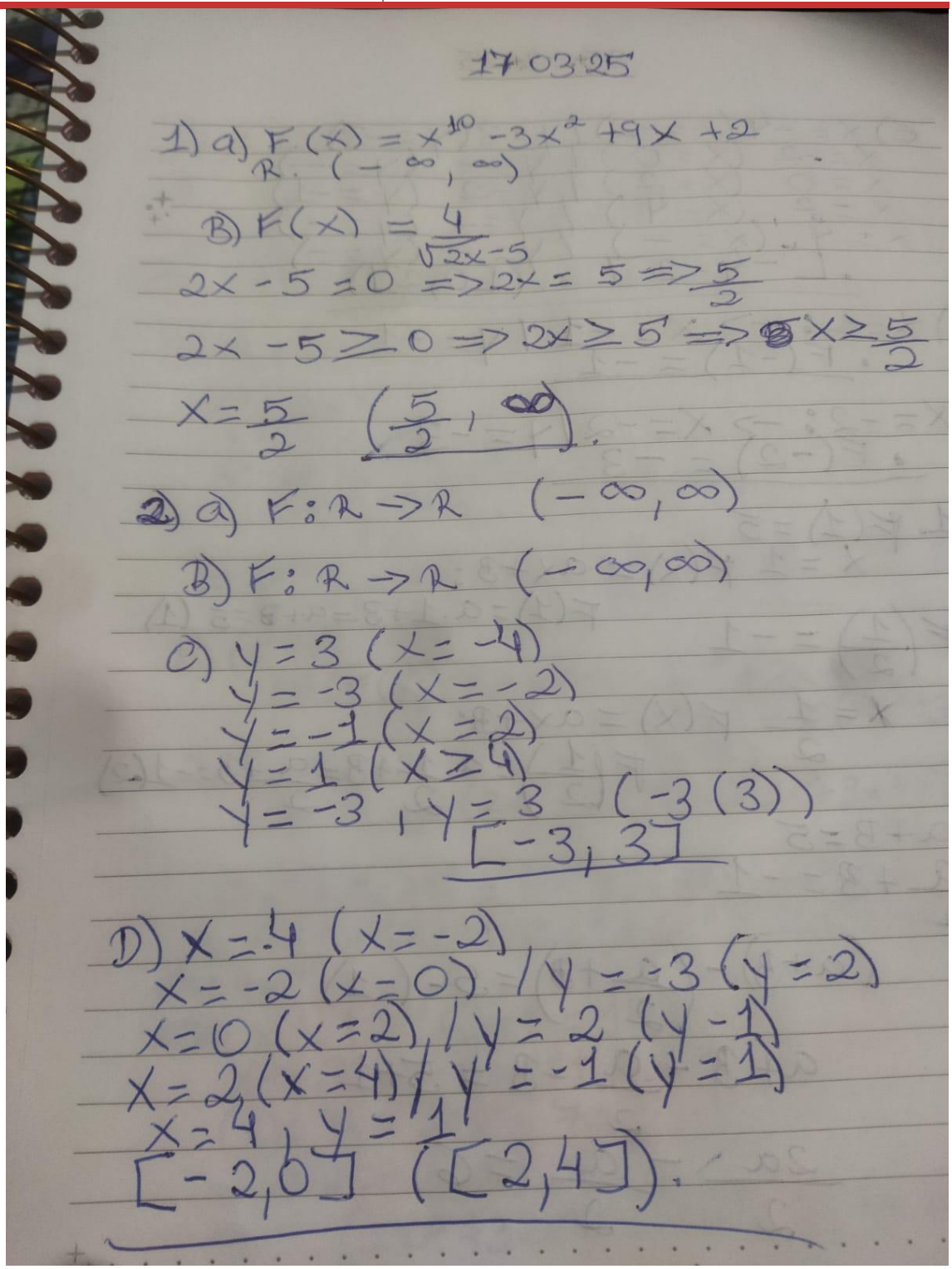
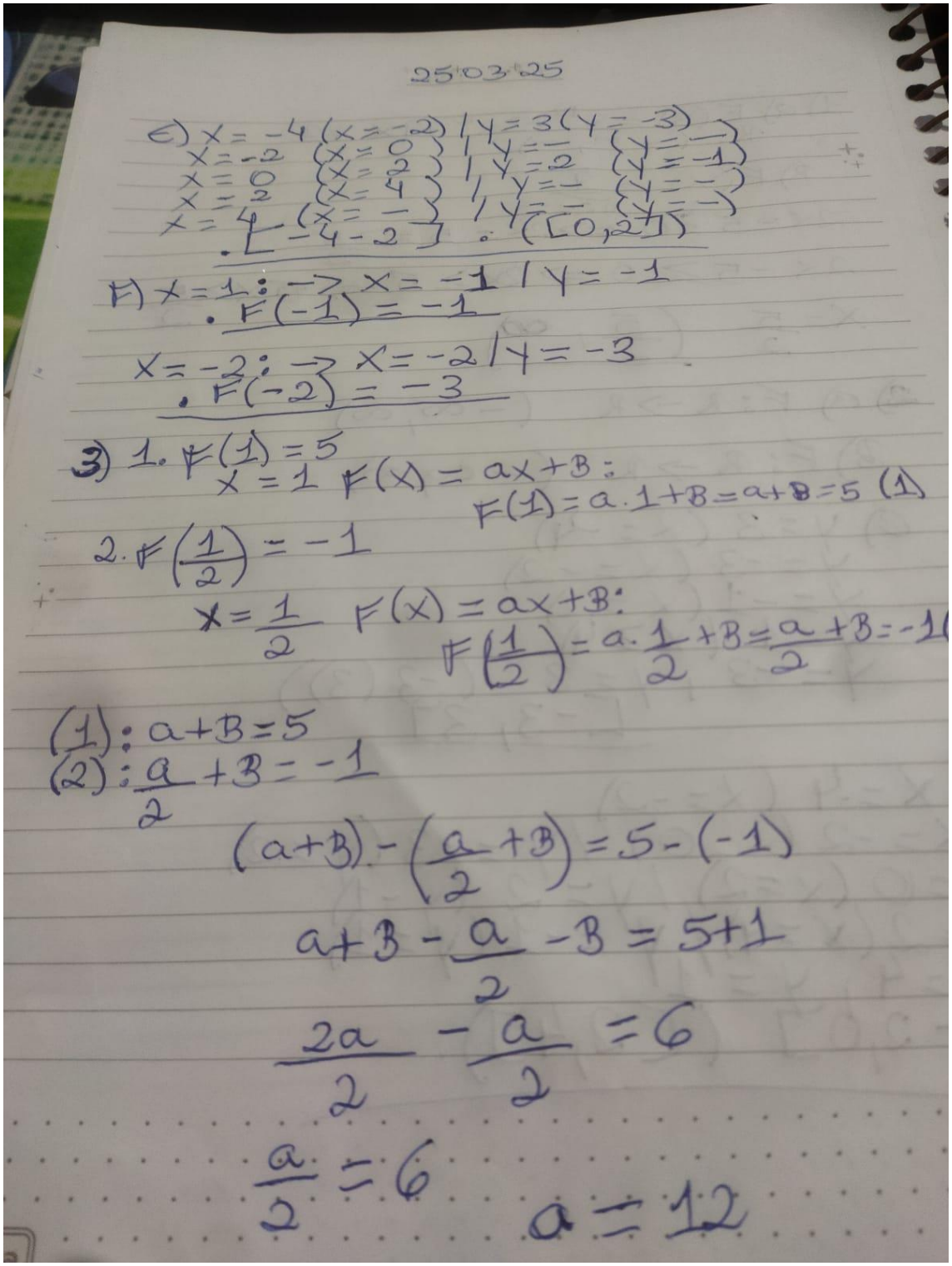
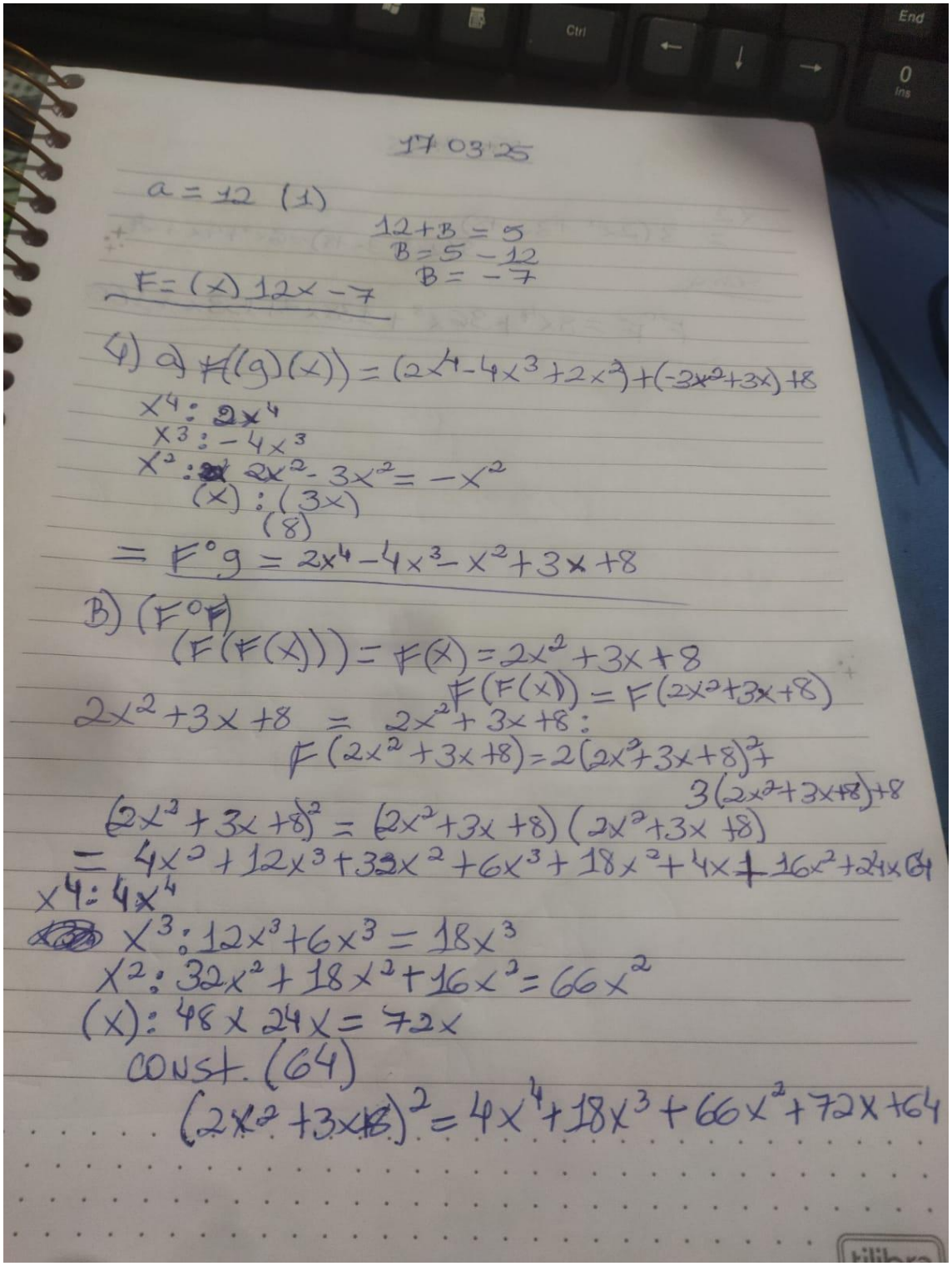
COMPONENTE CURRICULAR:	FUND. MATEMÁTICA
NOME COMPLETO DO ALUNO:	VINÍCIUS VIEIRA UCHITA
RA:	10727953




25/03/25
e) x = -4 (x = -2) / y = 3 (y = -3)
x = -2 (x = 0) / y = — (y = —)
x = 0 (x = 2) / y = -2 (y = -1)
x = 2 (x = 4) / y = — (y = —)
x = 4 (x = —) / y = — (y = —)
[-4, -2] ; [0, 2]
f) x = 1 : → x = -1 / y = -1
. F(-1) = -1
x = -2 : → x = -2 / y = -3
. F(-2) = -3
3) 1. F(1) = 5
x = 1 F(x) = ax + B :
F(1) = a . 1 + B = a + B = 5 (1)
2. F(1/2) = -1
x = 1/2 F(x) = ax + B :
F(1/2) = a . 1/2 + B = a/2 + B = -1
(1) : a + B = 5
(2) : a/2 + B = -1
(a + B) - (a/2 + B) = 5 - (-1)
a + B - a/2 - B = 5 + 1
2a/2 - a/2 = 6
a/2 = 6
a = 12



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$a = 12$ (1)

$12 + B = 5$

$B = 5 - 12$

$B = -7$

$F = (x)\ 12x - 7$

4) a) $F((g)(x)) = (2x^4 - 4x^3 + 2x^2) + (-3x^2 + 3x) + 8$

$x^4: 2x^4$

$x^3: -4x^3$

$x^2: 2x^2 - 3x^2 = -x^2$

$(x): (3x)$

(8)

$= F \circ g = 2x^4 - 4x^3 - x^2 + 3x + 8$

B) $(F \circ F)$

$(F(F(x))) = F(x) = 2x^2 + 3x + 8$

$F(F(x)) = F(2x^2 + 3x + 8)$

$2x^2 + 3x + 8 = 2x^2 + 3x + 8:$

$F(2x^2 + 3x + 8) = 2(2x^2 + 3x + 8)^2 +$

$3(2x^2 + 3x + 8) + 8$

$(2x^2 + 3x + 8)^2 = (2x^2 + 3x + 8)(2x^2 + 3x + 8)$

$= 4x^4 + 12x^3 + 32x^2 + 6x^3 + 18x^2 + 4x + 16x^2 + 24x + 64$

$x^4: 4x^4$

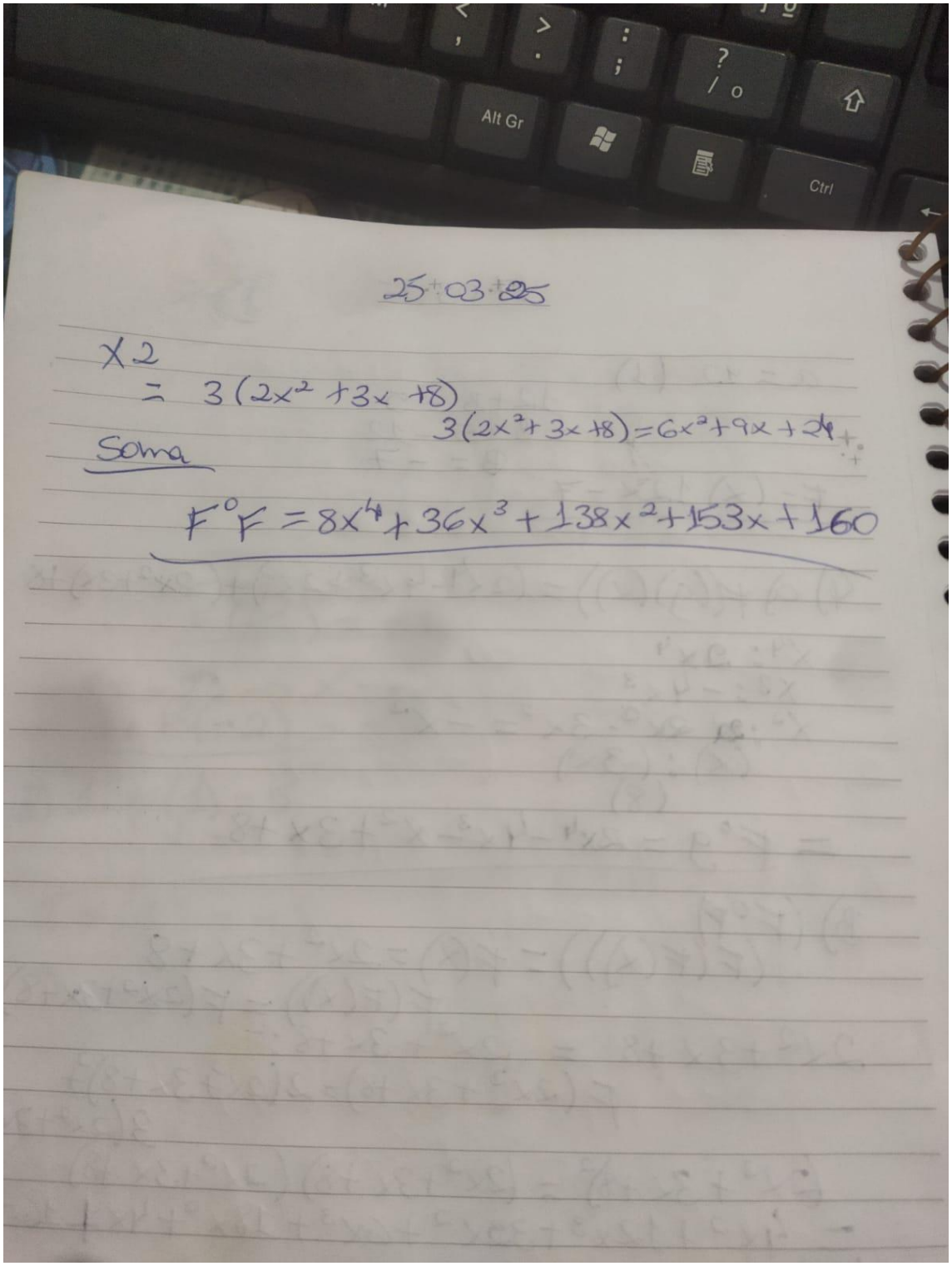
$x^3: 12x^3 + 6x^3 = 18x^3$

$x^2: 32x^2 + 18x^2 + 16x^2 = 66x^2$

$(x): 48x + 24x = 72x$

CONST. (64)

$(2x^2 + 3x + 8)^2 = 4x^4 + 18x^3 + 66x^2 + 72x + 64$


25/03/25
X2
= 3(2x² +3x +8)
3(2x²+3x+8)=6x²+9x+24
Soma
F°F = 8x⁴+36x³+138x²+153x+160