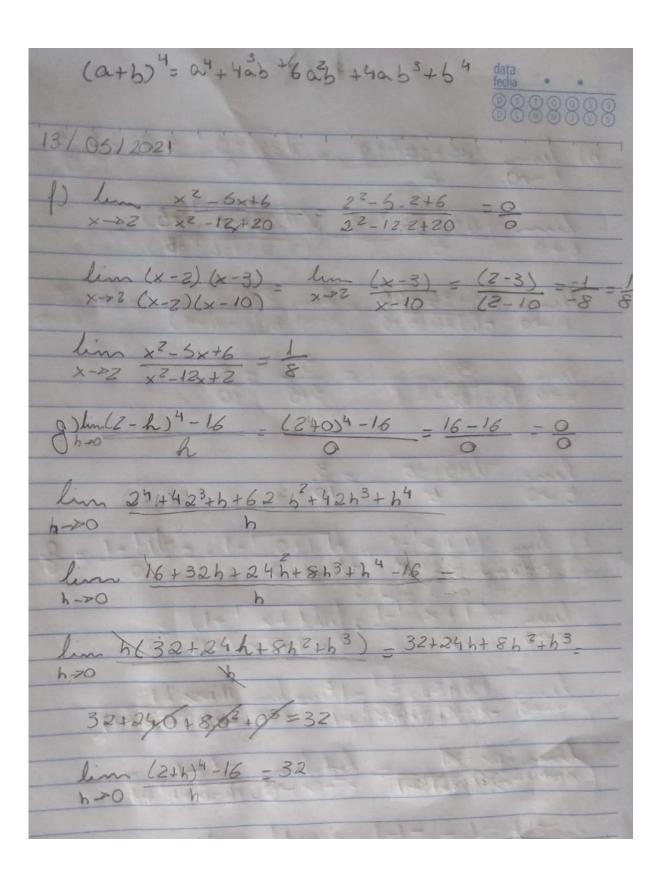
## Exercícios de Matemática 1 – Limites 0/0

Exercises  $\frac{2}{x^{2}-1} = \frac{1^{2}-1}{x^{2}-1} = \frac{0}{0}$   $\lim_{x \to 1} \frac{x^{2}-1}{x^{2}-1} = \lim_{x \to 1} (x-1)(x-1) = \frac{1}{0}$   $\lim_{x \to 1} \frac{x^{2}-1}{x^{2}-1} = \lim_{x \to 1} (x-1)(x-1) = \frac{1}{0}$ 

a.x2+bx+c=a.(x-x1.(x-x1) lun (x+1) = 1+1=2 lim x2-5x+6 = (x-3).(x2) - lin(x-3-2-3= x-2 (x/2) x-2 D=659-4.0.C A=25-24  $\Delta = 1$ X12=-(-6) = - 1 - 2 5-1 - X1=6 = 3 lim x2-5x+6 --1 x-72 x-2

c) lim x-1 = 1-1 = 0 (x-1) (JX1-1) -(x/1) (x/-1) lin (-UZI +1) = -517+1=2 lim x-1 -2 x-21 VA-1 d) lim x2-1 -(-13-1 -1-1 =0 x2-1 x2+3x+2 (-13+3)(-1)+2 1-3+2 0 lun x-1 - lun (x-1)(xx1) - x +-1 (x+1)(x+2) -Lun (x-1) = (-1-1) = -2 = -2 x-1) (x+2) [-1+2) 1 lem x2-1 =-2 e) lin (4+x)-16 - ×16-16 = 0 lim (4+x)2-16 = lim 16+8x+x2-16 = lim x2+8x = lim x(x+8)-lim (x+8)=0+85



b) lim 125+3±7-51 = J25+3.0 1-50 -5-5 lim 125+36 -5 (125+3t -5) -t +0 t (725+3t +5) Lin 25+3t-25 - lin 3.t - lin 3 t-20 tl- 125+3t+5 x-20 t/ 125+3t+5) VZS+3t+5 lin V25+3t i) lun 1/+ x -1 - 1/1 -1 - 0 -1 - 0 - 0 lun 7 1+x -1 ( \( \sqrt{1+x} \sqrt{+1} \) = x->0 -x \( ( \sqrt{1+x} \sqrt{1+1} \) Lun = 12+x27-12 = lin 14x41 x-0 - - x(-11+x7+1 x-10 - x(-11+x7+1) lin x -1 -1 -1 +1 +1 +1 10+1+1 - 1+1 - 1+1 - 2