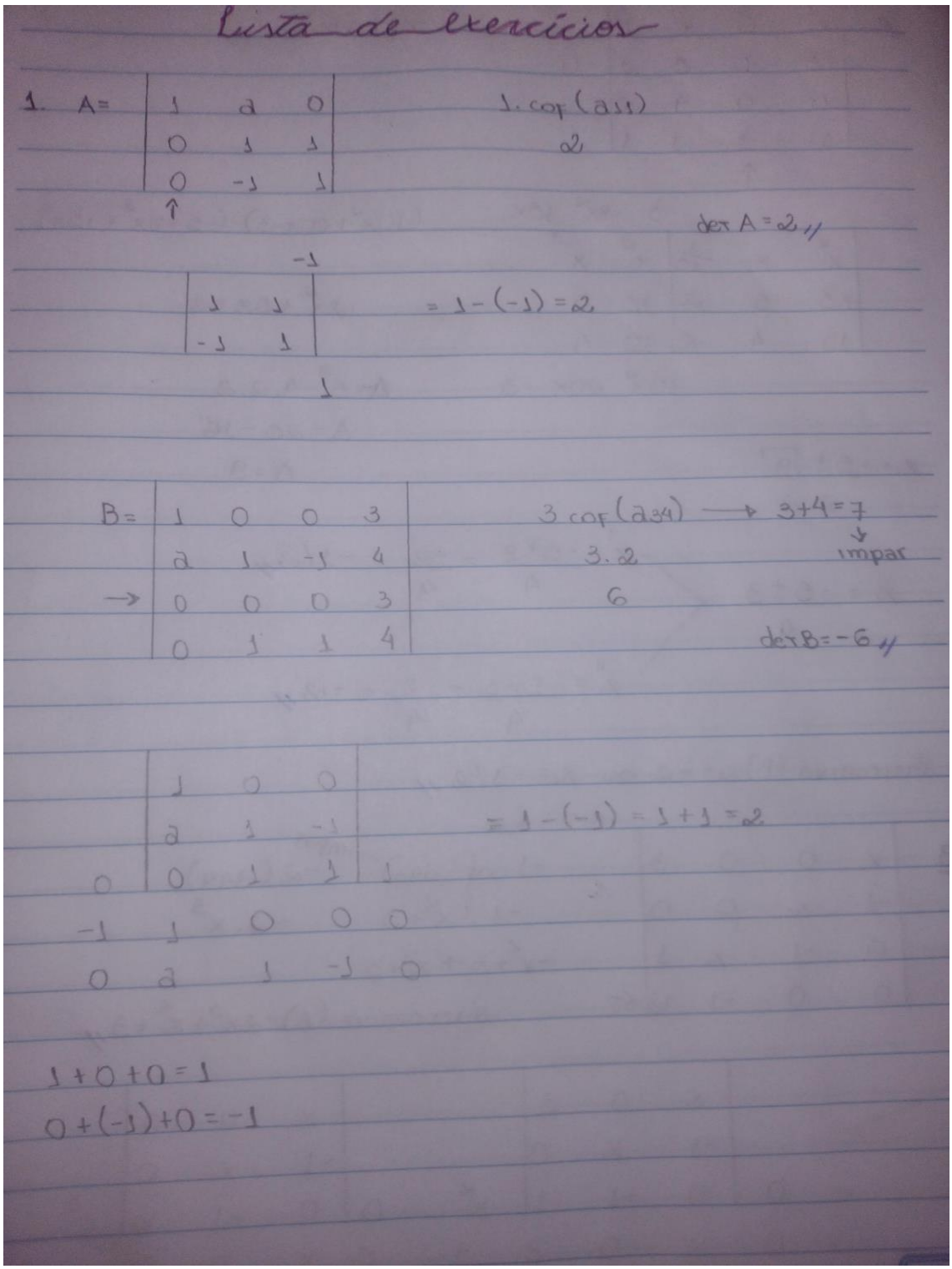
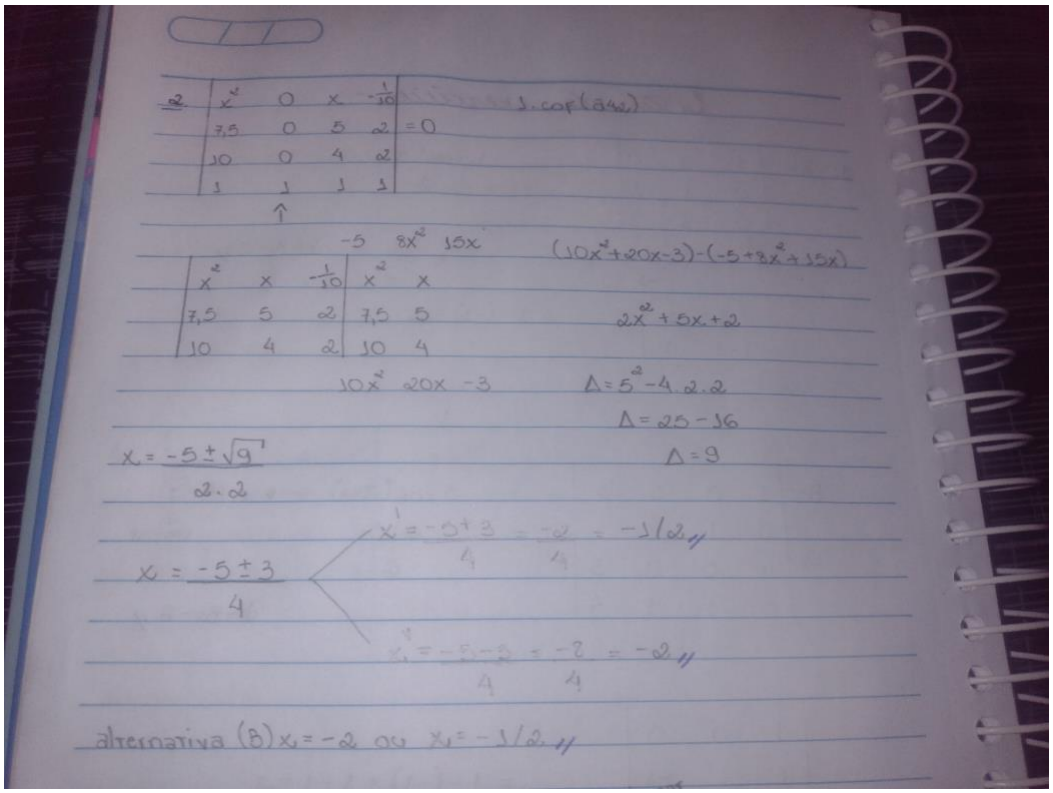
Aluno: Sabrina Vitória Pereira de Souza Ribeiro CTII350





2. $\begin{vmatrix} x^2 & 0 & x & -\frac{1}{10} \\ 7,5 & 0 & 5 & 2 \\ 10 & 0 & 4 & 2 \\ 1 & 1 & 1 & 1 \end{vmatrix} = 0$ — 1. cof(a42)

$-5 \quad 8x^2 \quad 15x$

$\begin{vmatrix} x^2 & x & -\frac{1}{10} \\ 7,5 & 5 & 2 \\ 10 & 4 & 2 \end{vmatrix} \quad \begin{matrix} x^2 & x \\ 7,5 & 5 \\ 10 & 4 \end{matrix}$

$(10x^2+20x-3)-(-5+8x^2+15x)$

$2x^2+5x+2$

$10x^2 \; 20x \; -3$

$\Delta = 5^2 - 4.2.2$

$\Delta = 25 - 16$

$\Delta = 9$

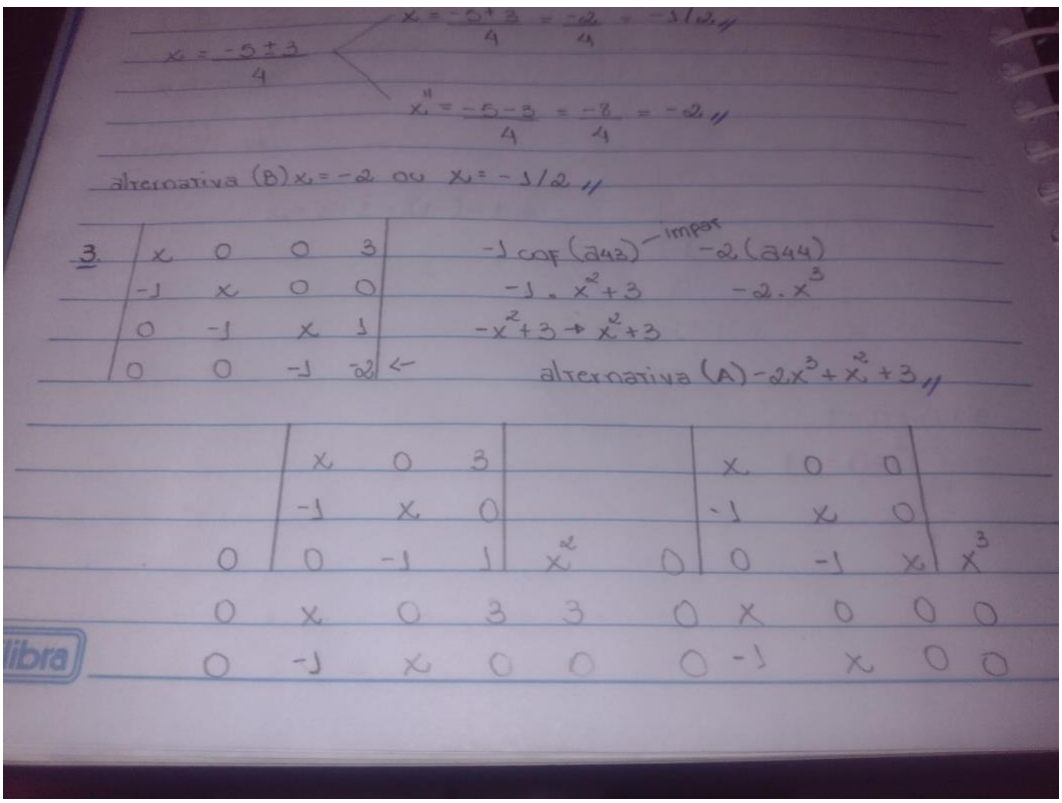
$x_1 = \frac{-5 \pm \sqrt{9}}{2.2}$

$x_1 = \frac{-5 \pm 3}{4}$

$x_1' = \frac{-5+3}{4} = \frac{-2}{4} = -1/2$ //

$x_1'' = \frac{-5-3}{4} = \frac{-8}{4} = -2$ //

alternativa (B) $x_1 = -2$ ou $x_1 = -1/2$ //



$x_1 = \frac{-5+3}{4} = \frac{-2}{4} = -1/2$ //

$x_1'' = \frac{-5-3}{4} = \frac{-8}{4} = -2$ //

alternativa (B) $x_1 = -2$ ou $x_1 = -1/2$ //

3. $\begin{vmatrix} x & 0 & 0 & 3 \\ -1 & x & 0 & 0 \\ 0 & -1 & x & 1 \\ 0 & 0 & -1 & 2 \end{vmatrix}$ ← — $-1 \, cof(a43)$ (impar) $-2.(a44)$

$-1 . x^2 + 3 \qquad -2.x^3$

$-x^2+3 \rightarrow x^2+3$

alternativa (A) $-2x^3+x^2+3$ //

$\begin{vmatrix} x & 0 & 3 \\ -1 & x & 0 \\ 0 & -1 & 1 \end{vmatrix} \; x^2 \; \begin{vmatrix} x & 0 & 0 \\ -1 & x & 0 \\ 0 & -1 & x \end{vmatrix} \; x^3$

$0 \; x \; 0 \; 3 \; 3 \quad 0 \; x \; 0 \; 0 \; 0$

$0 \; -1 \; x \; 0 \; 0 \quad 0 \; -1 \; x \; 0 \; 0$