① a) $2,5 = \left| \frac{x - 3,77}{x} \right| \cdot 100\%$

$2,5 \cdot |x| = |x - 3,77| \cdot 100$

$2,5 \cdot |x| = 100 |x - 3,77|$

$|x| = 40 |x - 3,77|$

$x = 3,86667...$

$x = 3,8666$

b) $Er = \frac{3,8666 - 3,77}{3,8666}$

$Er = 0,024983...$

$Er \cong 0,025$

c) $Ea = x - x'$

$Ea = 3,8666 - 3,77$

$Ea = 0,0966$

(2) $f(x_1, x_2) = 2x_1x_2 - 3x_2^2 + \frac{x_1^2}{x_2}$

$f(3,1; 2,9) = 2 \cdot 3,1 \cdot 2,9 - 3 \cdot (2,9)^2 + \frac{(3,1)^2}{2,9}$

$f(3,1; 2,9) = 17,98 - 25,23 + \frac{9,61}{2,9}$

$f(3,1; 2,9) = -7,25 + \frac{9,61}{2,9}$

$f(3,1; 2,9) = \frac{-21,025}{2,9} + \frac{9,61}{2,9}$

$f(5,6; 2,1) = \frac{-2283}{580}$ ou $f(5,6; 2,1) = -3,93621\ldots$

(3) d → Erro do instrumento

(4) Z → Erro na conversão

(5) $x_1 = 0,45$

$x_2 = 0,924$