$f(x) = -4x_1^4 - 8x_1^2 x_3^2 + 5x_2^4 - 6x_2^2 x_3^2 - 2x_3^4$ h,(x)=11x,2+6x, 2,+10x, x3+39x,+ +39x1+3x22+10x2x3+31x2+12x3--523 - 120 = 0 $G_1(\mathcal{X}) = -43,25 \mathcal{X}_1 - 137,25 \mathcal{X}_2 + 90,75 \mathcal{X}_3$ -594 ≤0 $g_2(x) = 106,75x_1+5,75x_2-86,25x_3-$ -380,25 ≤0 For point to be stationary it must sætisfy the following conditions: 1. Stationarity: 2. Complementarity 3. Primal feasibility 4. Doucel feasibility Let's check those criteria for cell points.