

(3) Hu-bo nrauob penjaepuo (au nyuum 1) $F(x, \lambda) = (x_1^2 - x_2 + x_3) + \lambda_3 (2x_1 + 3x_2 - 12) + \lambda_4 (2x_1 + 3x_2 - 12) + \lambda_5 (2x_1 + 3x_2 - 12)$ + /2 (2x, +x2-10) + /3 (x,-5) + /4 (-x1-1) /1=0 Yenobus Myun-Tauxehn Dygym weems eneg kug

1) $\partial F = 2x$, $+ 1 + 2 \cdot 1x + 2 \cdot 1x + 1x - 1y \ge 0$ OF = -1+3/1 + 12 20 2) DE = 2x, +1+2/1 +2/2+/3-/4=0 DE = 1+3/1 + /2 =0 3) $\partial F = 2x_1 + 3x_2 - 12 \le 0$ $\partial F = x - 5 \le 0$ ∂A_1 $\partial F = 2x_1 + x_2 - 10 \le 0$ $\partial F = -x_1 - 1 \le 0$ ∂A_2 ∂A_3 ∂A_4 ∂A_4 ∂A_5 ∂A_5 ∂A_5 ∂A_6 ∂A_6 Pemal c-my nongulu
(X°, 1°) = (-5/6, 41/9, 1/3, 0, 0, 0) $f(X^{\circ}) = +(5/6)^2 - 41/9 - 5/6 = -\frac{169}{26}$ (D) F(x°, X) ≤ F(x°, 20) ≤ F(x, 20) $-169 + \lambda_{3} + 0 + \lambda_{2} \left(-\frac{64}{9}\right) + \lambda_{3} \left(-\frac{35}{9}\right) + \lambda_{4} \left(-\frac{1}{6}\right) = -169$ 1, 20 => 200 Bepus $\frac{169}{36} \le \chi_1^2 - \chi_2 + \chi_1 + \frac{1}{3}(2\chi_1 + 3\chi_2 - 12) = \chi_1^2 + \frac{5}{3}\chi_1 - 4 =$ $= (\chi_1 + 5/6)^2 + \frac{25}{36} - 4 = (\chi_1 + 5/6)^2 - \frac{169}{36}$ тами б мом (х°, х°) - адповая функция гогиа фуниции Лагранта