Homework 2 Solutions.

$$1.a) K[y,2] =$$

$$4^{2}x^{5} - 4^{3}x^{4} + 2x^{2} + (2+y)x + (y^{5}-y^{3}z - 5z + 3)$$

$$y^{5} - (\chi^{4} + 2)y^{3} + \chi^{5} + \chi^{2}y^{2} + \chi^{4}y + (\chi^{2}z + 2\chi - 5z + 3)$$

$$C \setminus K[N, y] =$$

$$(5 2 2 3 -) + (4 3 5)$$

$$(25y^{2}+x^{2}-y^{3}-5)z+(-27y^{3}+y^{5}+xy+2z+3)$$

$$\frac{(\chi_1 + y_1 - y_2)^2}{(\chi_2 - \chi_1)^2 + (y_2 - y_1)^2} = 4$$

$$(\chi_3 - \chi_2)^2 + (y_3 - y_2)^2 = 4$$



(a) Variable restraints

#-variables equations.

of 3 Dimension for the variety of states.



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