Cycling (Klu & Minty)

max (3) ny - 20 ng + (1) ng - 6 ng

5-60.

ny + 1 ny - 2 ng - ng + 9 ng =0.

ng + 1 ny - 12 ns - 1 ns + 3 ny 20

ni ≥0 ti

n3 + n/ = 1

Initial Basis

 $\{n_1, n_2, n_3\} \rightarrow B = I_{3 \times 3}$ 

 $\begin{pmatrix} n_1 \\ n_2 \end{pmatrix} = n_3 = b = \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$  Degenerate BFS.

G VB NB J1 J2 J3 J4 J5 J6 J-

cycling occurs

1 largest coefficient Rule	
1) entering variable largest coefficient june zjej	
2) leaving variable smallest index.	is one having
k cycling	
max z = 10 m - 57 mg - 9	$n_2 - 24 n_4$
S. to. $\left(\frac{1}{2}\right)$ $\frac{1}{2}$ $\frac{1}{5}$ $\frac{1}{2}$	- (5) ng + 9ng + ng =0
$\frac{1}{2}$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{1}{2}$	nz + n4 + n6 = 0
ni ≥0 ti	ny + ny = 1
counter examp above rule	
3 Bland's Rule (Robert G	
1) Among all variable choose the one winter 2) leaving variable of ties) having low top of table	th smallest index
of ties) having low top of table	is the one (in case rest index row from

