Assignment -4 St Ansb A is Equare & full lank Que 1: - Given, ming et 21 Som- greanble if no x will satisfy constraint if 470 4 arouning 01,70 It will be come intensible as for to Sow; keep on minimizing the fun upto - a Minimize for ni=0 121,43,4,1000 As ni increases the fun will keep on windriving. (c) fruite sohn ? nivimized 20 if 27,0 ci 70 ti nivirum value of object 20 when ni 20 One 2: Thow that any liver prog.

min CTM St Antip 21,000 M Lets take some problems which was constraints like

An & b

Using start variable, we can rewrite this as

An + s = b + s > 70 we can have constraint like.

An 7/b

asing sall variable, we can rewrite fins as An-9=6,57,0 nange objective .

De minimize, replace to to -c. we can diminate free variables

if n, unantamed, replacing it with nt-nt
with nt 70

nt 70 Transformation to standard form coungre Minimiz 2m, + 4m2. m+ n2 >3 $3n_1 + 2n_2 = 14$ 717/D

No constraint on 72 Minnize, 2n+4n+-4n2 $\frac{3n_{1}+2n_{2}-3}{2n_{1}+2n_{2}+2n_{2}+2n_{2}} = 14$ 71,7,0 7370 In 3 - Couride program

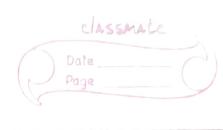
nin CT n

St Anzb

or when is the program intasible? Solut 37 0 4 assuming 2170

g will become in feasible as form) -10 Sout keep on which wising the fin all

the way to - o. Minimizets n; =0 121,2,5,000 9 £0, n, 70 As on increases & seaches to De the



Some finte Minimum solu o D taking n' 20 ctt & 97,0 t

Minimum value of objetive is o