Amey Thakur SE-Comps B-50

Practice Test AM-IV

Class: SE B - 50 Date: 08/05/2020 Time: 10 AM to 11AM

Q.01 Find all basic, feasible and degenerate solutions of the equations

$$2x_1 + 6x_2 + 2x_3 + x_4 = 3$$
, $6x_1 + 4x_2 + 4x_3 + 6x_4 = 2$

Q.18 A certain injection administered to 12 patients resulted in the following changes of blood pressure: 5, 2, 8, -1, 3.0, 6, -2, 1, 5, 0, 4. Can it be concluded that the injection will be in general accompanied by an increase in Blood pressure?

	30%.A.	Amen							
	Amey Thekur B-50 DATE 08/05/2								
	۵.۱.								
. +	Sol": The state of								
por 12.1									
	$2x_1 + 6x_2 + 7x_3 + 6x_4 = 3$ $6x_1 + 4x_2 + 4x_3 + 6x_4 = 2$ Since there are four variables and 2 contract there are $4c_2 = 6$ basic solution								
-									
-									
	2/2012								
No. 01	No. 07	Basic	Eq" of the value	7.1	degenerale				
basic	basto	Variables	of basic?	102					
.^(02_	Vasiable	101	· variables	Cecasible					
J. Jon.	M3=0 90	Mr No.	22,+61203	Yes	Yes				
V	sup = D	1	6 x 1 T 400 2 = 2						
		le in	21 = 0						
			n2 = 1/2						
			bololymon) >						
2	n2 = 0	3(1,313	2217343=3	No	No				
	×4 =0		6×1+4×0=2						
			21=1-2						
		50	n3=7/2						
3	o(1 = 0	N2, N3	6×2 +2×2 = 3	Yes	y				
	314 = D	76	42+423=2	10	Yes				
		,	21/2						
			2 = 1/e						
			-						
4	21 = 0	22,74	672+74=3	Yes	Yes				
	23 = 0	,	4274674=2	1 84	165				
			Ne = 1/2						
			×4 = 0						
The state of the s			7 0						

Amey Thokas - B-50 - PAGE NO. | DATE | 08/05/2020 2 x1 + 44 = 3 22 = 0 5 24,264 20 No 73=0 621+444=2 N1=8/3 x, =0 3 25 26 2 23 tack = 3 40 20 x2 = 0 4 93 7624=2 24 = -1

			~ do		FRACE NO.			
	Amey	Thakur B-5	0		DATE 08/05/2020			
	2.18							
ar o	Co-1	E = 177 Y C	,s >	C				
	102	a result and and		, e 1	0 = 82			
		712 K						
	N :	12 (< 30, 20	12	95 9	small sample)			
		- 10 A B B B B B B B B B B B B B B B B B B						
100	Change	In 61000 pressure) K	210	di2			
	3	(3:)	Valori		1 - 3 4			
		4.68		•				
		51-146			25			
	<u> </u>	2			4			
	8			64				
	-)			1				
	3			9				
				0				
Ψ,	6			36				
	-2			4				
~	1			,				
	5			25				
	. 0			0				
	4			16				
				i visa ee				
Total		3)			185			
, , , , , , , , , , , , , , , , , , ,								

Amey Thakur B-50

$$= \frac{(185) - (31)^2}{(12)}$$

2.9569

Step 4:

S.E

0.8915

Decision ((des) sular

Since Itcail > to Ho is rejected

r. The injection will be in general accompaniel by an increase in blood pressure