

Date ____/____/____

Assignment - 1

0	4	5
2	0	∞
∞	-3	0

Step 1 : Vertex 'a' or '1'

$$\min(2, 2) = (0, 6) = 0$$

$$\min(2, 3) = (6, 7) = 7$$

$$\min(3, 2) = (-3, \infty) = -3$$

$$\min(3, 3) = (0, \infty) = 0$$

Matrix :

0	4	5
2	0	7
∞	-3	0

Step 2 : Through vertex 'b' or '2'

$$\min(1, 1) = (0, 6) = 0$$

$$\min(1, 3) = (5, 11) = 5$$

$$\min(3, 1) = (\infty, -1) = -1$$

$$\min(3, 2) = (0, 4) = 0$$

Resultant

0	4	5
2	0	7
-1	-3	0

Step 3 : Through vertex 'c'

$$\min(1, 1) = (0, 4) = 0$$

$$\min(1, 2) = (4, 2) = 2$$

$$\min(2, 1) = (2, 6) = 2$$

$$\min(2, 2) = (6, 4) = 0$$

Resultant matrix

0	2	5
2	0	7
-1	-3	0