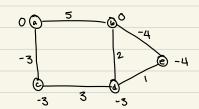
Homework 4 Adjacency Matrix 45 1 00 0 0 0 0 0 00000 0 0 Step 6 Has the minimum spanning tree Step 1: Step 2: 5= {0,13 5- 803 (d) 1.2.3.4,5.63 Ys= {2.3,4.5,6} A- {DI3 A= { 3 Lightest Edge: 2013 lightest: {133 Step 3: S- {0,1,3} Step 4: 8= {0,1,3,4} V/5- {245,63 A- {01, 133 ¥= {2, 5, 6} A- {01, 13, 34} lightest: {34} lightest: 2243 Step 5: Step 6: S= {0.1,3,2,43 Ø 1/5- {5.6} A- {01, 13,34,42} lightest = {21,263 5- 80,1,2,3,463 45- 253 A= 201, 13, 34, 42.26} No lightest Edge

Graph after pass 2

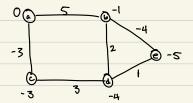
Ass 3:

Graph after Pass 3



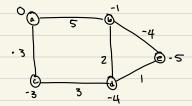
Pass 4:

Graph after Pass 4:



Pass 5

Graph after Pass 5



The distances changed, so we can conclude that this contains a negative edge.