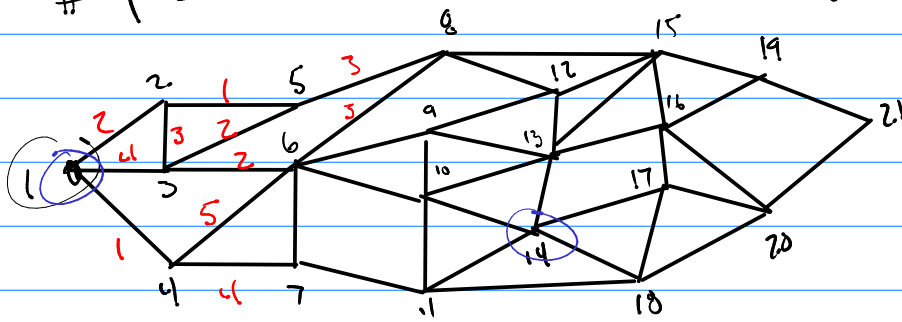


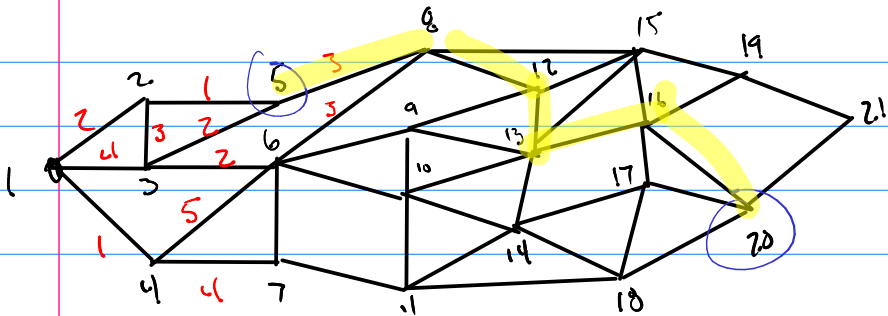
# Math 322

p. 716 #4 → look @ back to see weights



Dijkstra's

Vertex	Path	Cost
$v_1$	$v_1$	0
$v_4$	$v_1, v_4$	1
$v_2$	$v_1, v_2$	2
$v_5$	$v_1, v_2, v_5$	3
$v_3$	$v_1, v_3$	4



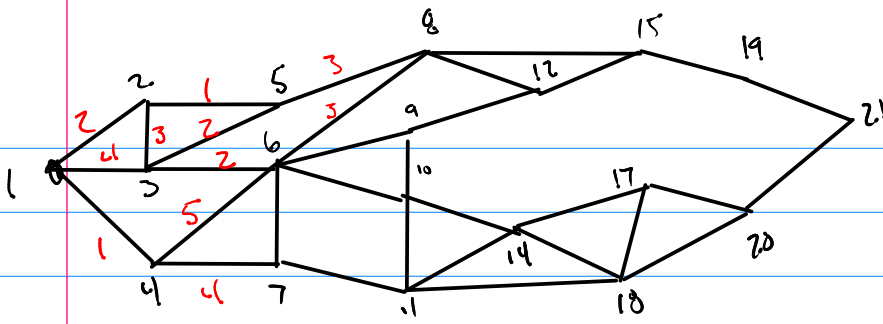
Idea:

(1) Use Dijkstra's on each vertex.

(2) Find the vertex that occurs the most in the shortest paths.

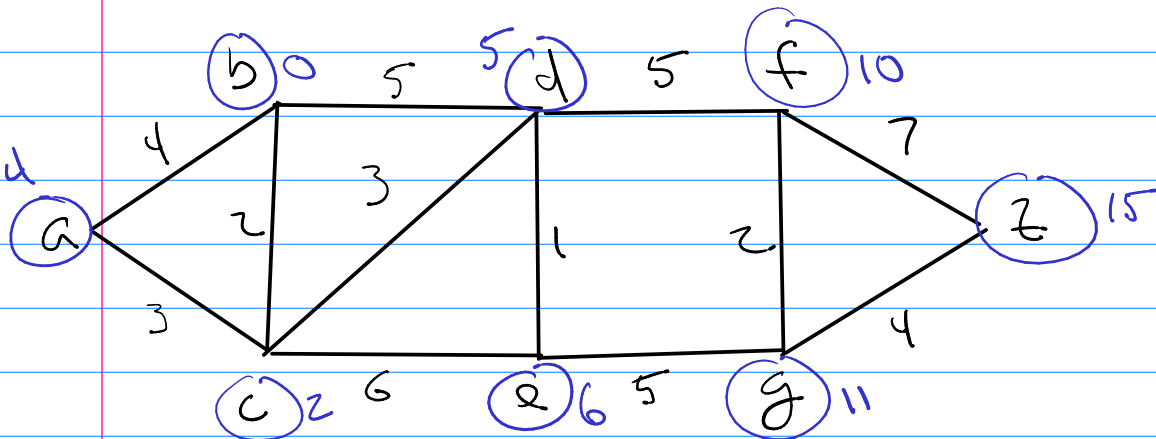
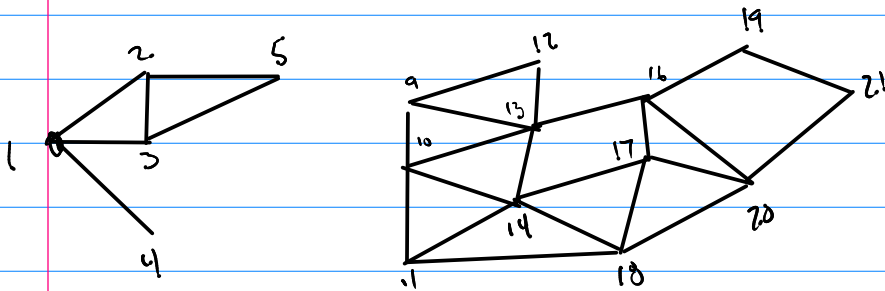
(3) Centrality → how often is a vertex in a shortest path.

→ Information Brokers



Kieran Healy

Metadata Paul Revere



Vertex	Path	Cost
b	b	0
c	b, c	2
a	b, a	4
d	b, d	5
e	b, d, e	6
f	b, d, f	10
g	b, d, e, g	11
z	b, d, e, g, z	15

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