

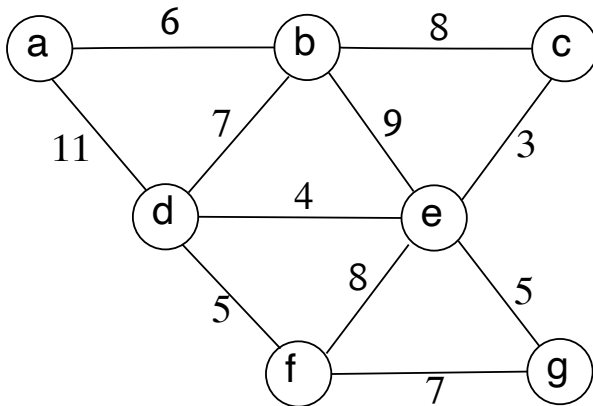
CSE 5319/6319 Homework 4

Due April 17, 5:00 p.m. on Canvas

- KP p. 266, problem 14.18.
- Similar to p. 25-26 of `notes03.2.mech.pdf`, analyze the Allocation Algorithm for Downward Sloping Valuations for following $v_i(k)$ values for buyer i . Note that $v_i(k) = v_{i1} + v_{i2} + \dots + v_{ik}$. The result is a table of clearing prices and allocations like the one at the top of p. 26.

		k									
		$v_i(k)$	0	1	2	3	4	5	6	7	8
i	1	0	50	100	143	182	219	244	259	269	
			50	50	43	39	37	25	15	10	
	2	0	70	135	188	223	257	287	313	323	
			70	65	53	35	34	30	26	10	
	3	0	60	115	160	200	236	263	287	304	
			60	55	45	40	36	27	24	17	

- Compute the VCG payments for the minimum spanning tree for this graph.



- Determine the optimal fixed price for the following bids for copies of a digital good:

10 10 10 9 9 8 8 8 7 7 6 6 5 5 4 4 4 4 4 4