Tugas - Tree

Nama : Rizqi Rohmatul Huda

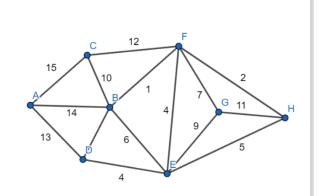
Kelas : 2G – TI No.Absen : 26

NIM : 2141720264

SOAL LATIHAN

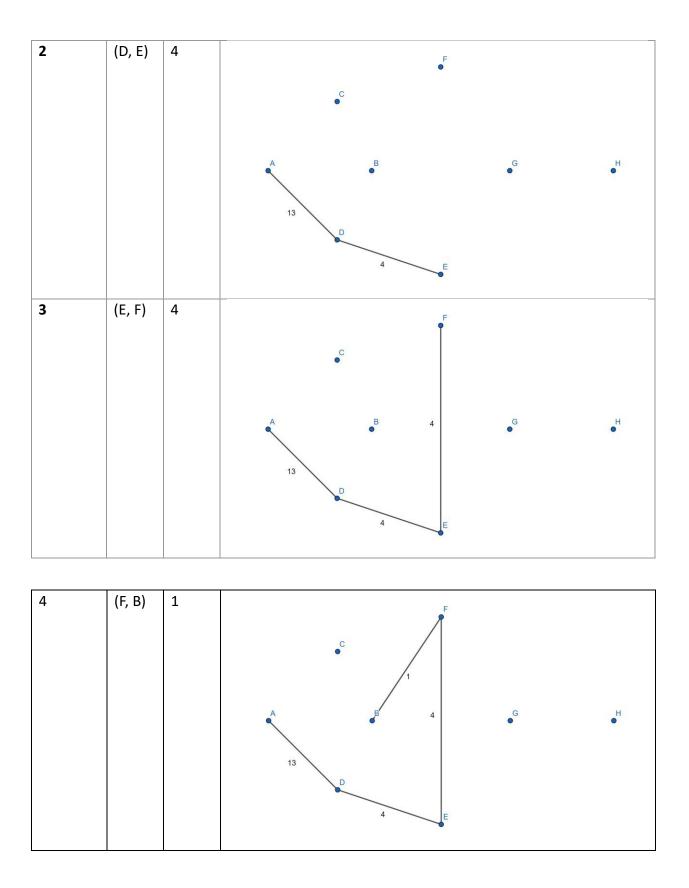
Tentukan dan gambarkan pohon merentang minimum dari graf pada gambar tersebut menggunakan:

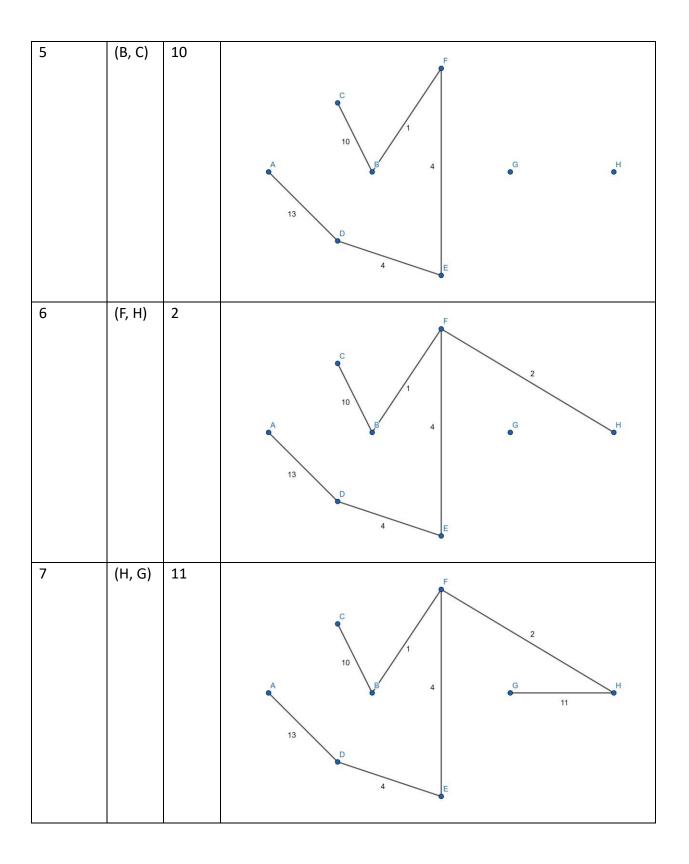
- a) Algoritma Prim
- b) Algoritma Kruskal

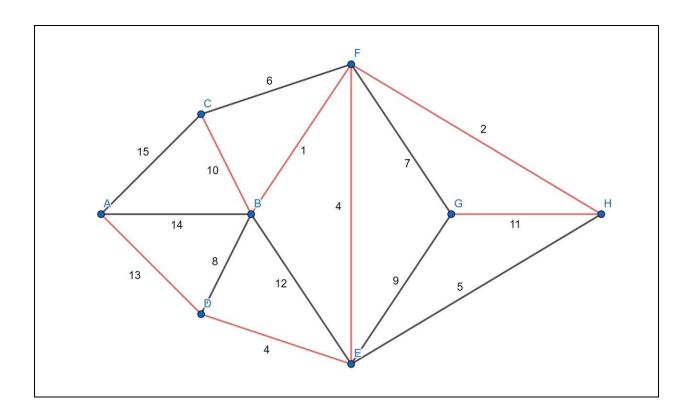


a. Algoritma PrimsRentang minimum untuk sebuah graf berbobot yang saling terhubung.

Langkah	Sisi	Bobot	Pohon Rentang
1	(A, D)	13	• F
			°C
			A B G H
			E





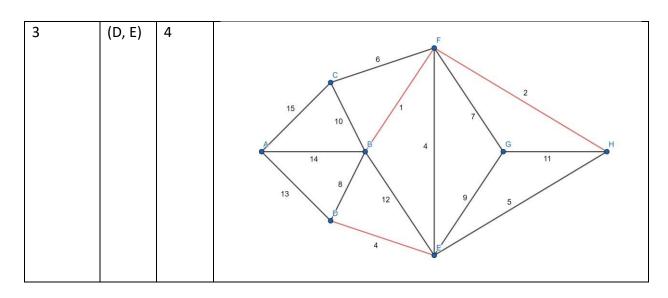


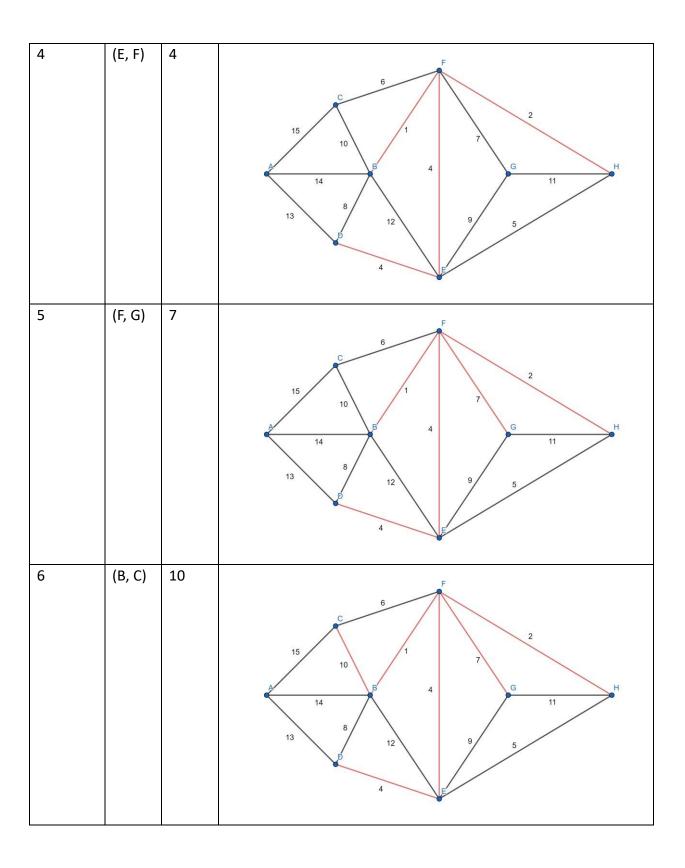
b. Algoritma Kruskal

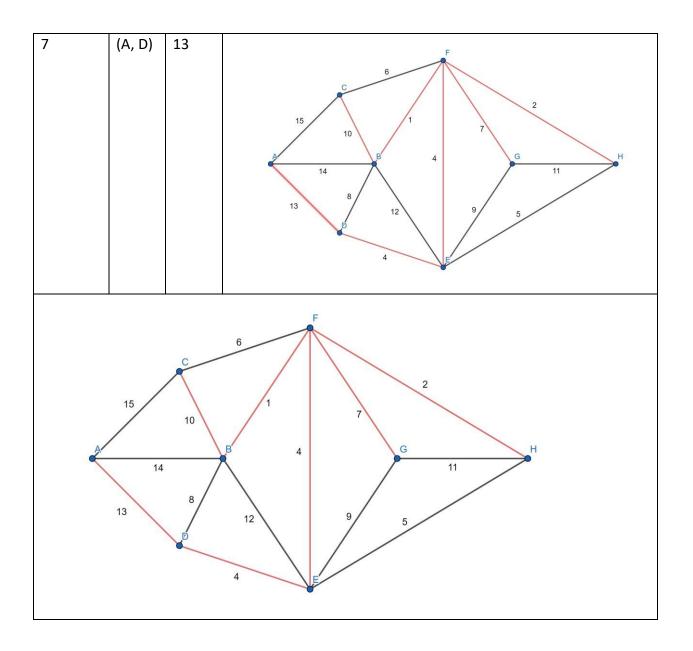
Pengurutan masing-masing sisi secara ascending

Sisi															(A, C)
Bobot	1	2	4	4	5	6	7	8	9	10	11	12	13	14	15

Langkah	Sisi	Bobot	Pohon Rentang
1	(B, F)	1	15 10 2 7 7 G 11 H 13 8 12 9 5
2	(F, H)	2	15 10 7 7 G 11 11 11 H







Bobot = 1 + 2 + 4 + 4 + 7 + 10 + 13 = 41