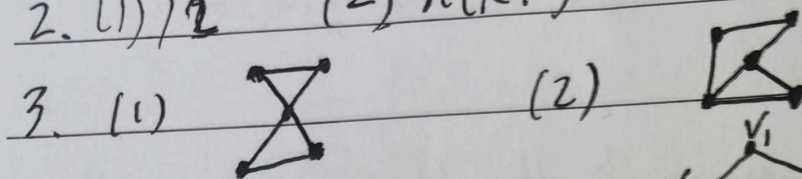
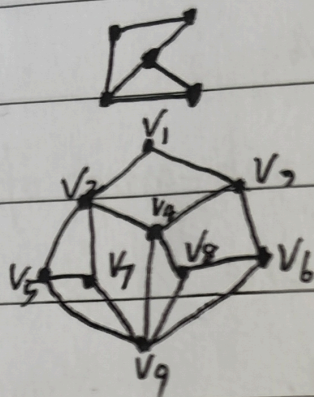


1. (1) \checkmark (2) \checkmark (3) \checkmark (4) \checkmark (5) \checkmark

2. (1) 12 (2) $n(k+1) - 2m$ (3) ~~8~~ 9



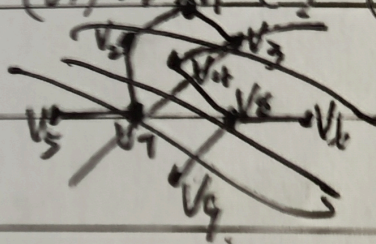
4. Kruskal's



(1) (V_6, V_8)

(2) (V_5, V_7) (3) (V_1, V_2) (4) (V_1, V_3) (5) (V_2, V_7) (6) (V_8, V_9)

(7) (V_2, V_4) (8) (V_4, V_9)



Prim's

(1) (V_1, V_8) (2) (V_8, V_9) (3) (V_4, V_8) (4) (V_2, V_4)

(5) (V_1, V_2) (6) (V_1, V_3) (7) (V_2, V_7) (8) (V_5, V_7)

minimum spanning tree:

