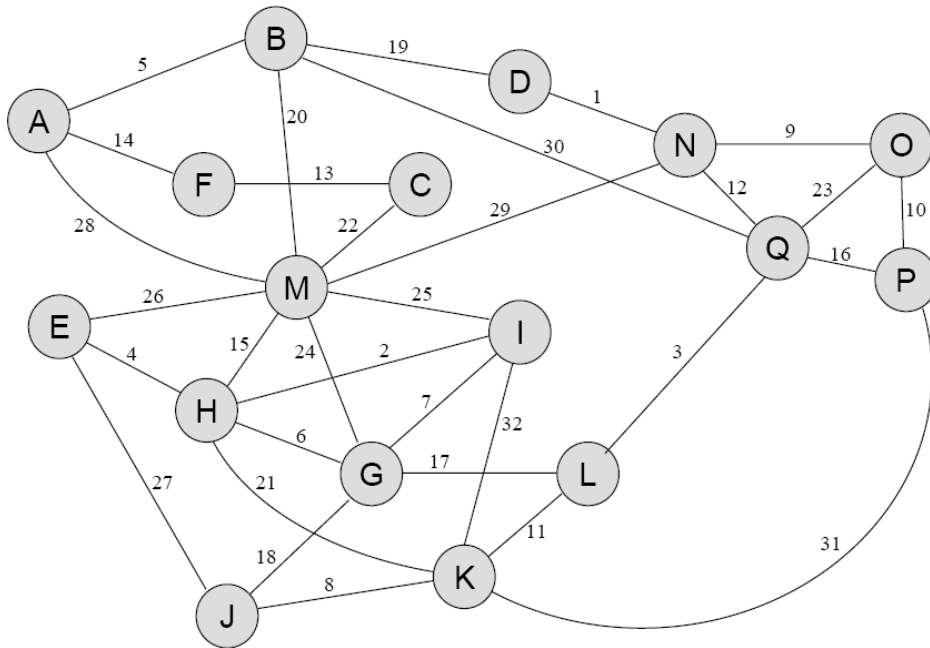


Solutions to Week #13-14 Exercises V, W, X, Y – Spring 2008

Exercise V.



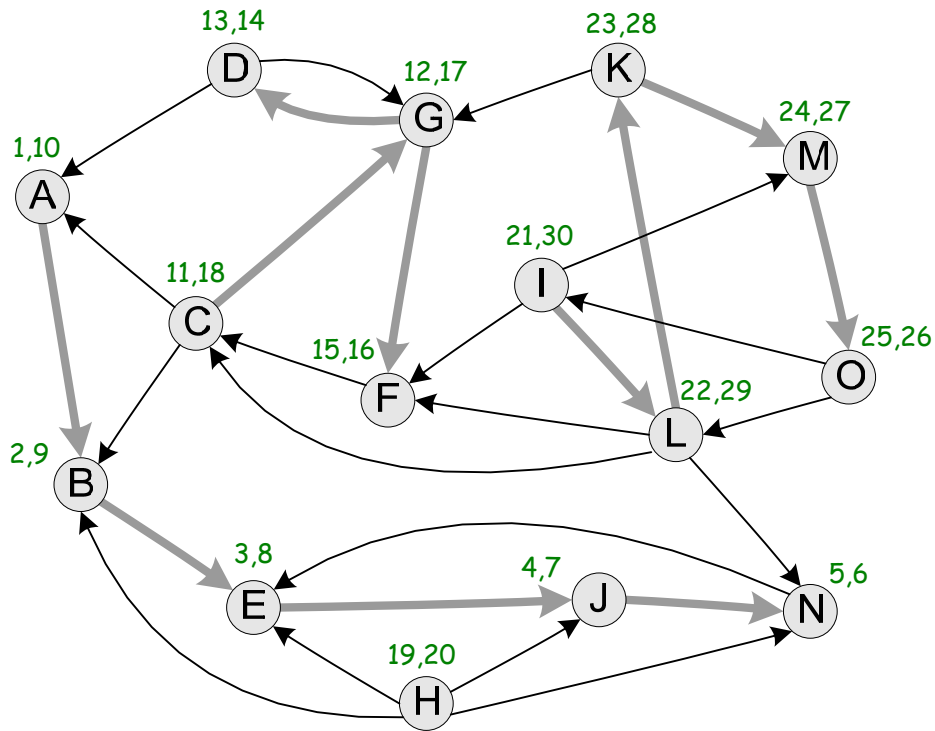
Edges and vertices selected (Prim)

| New Edge | New Vertex | Weight |
|---------------|------------|--------|
| AB | A | |
| AB | B | 5 |
| AF | F | 14 |
| FC | C | 13 |
| BD | D | 19 |
| DN | N | 1 |
| NO | O | 9 |
| OP | P | 10 |
| NQ | Q | 12 |
| QL | L | 3 |
| LK | K | 11 |
| KJ | J | 8 |
| LG | G | 17 |
| GH | H | 6 |
| HI | I | 2 |
| HE | E | 4 |
| HM | M | 15 |

Edges selected (Kruskal)

| New Edge | Weight |
|----------|--------|
| DN | 1 |
| HI | 2 |
| QL | 3 |
| HE | 4 |
| AB | 5 |
| GH | 6 |
| KJ | 8 |
| NO | 9 |
| OP | 10 |
| LK | 11 |
| NQ | 12 |
| FC | 13 |
| AF | 14 |
| HM | 15 |
| LG | 17 |
| BD | 19 |

W.



X. a) NE, DG, FC, OI, OL

b) IM

c) CA, CB, DA, HB, HE, HJ, HN, IF, LC, LF, LN, KG

Y.

