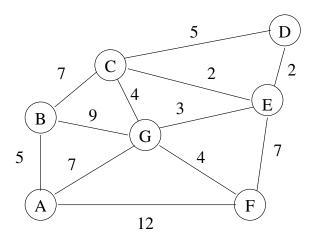
Prim Worksheet



Start with vertex A in a set by itself $T = \{A\}$ and with T_{prim} empty. At each step, choose a vertex not in T that can be joined to a vertex in T using an edge of least cost. Add the vertex to T and the edge to T_{prim} . Show T and T_{prim} at the end of each iteration

I1
$$T = \{A, B\}$$
 $T_{prim} = \{5\}$

I2
$$T = \{A, B, G\}$$
 $T_{prim} = \{5, 7\}$

13
$$T = \{A, B, G, E\}$$
 $T_{prim} = \{5, 7, 3\}$

I4
$$T = \{A, B, G, E, C\}$$
 $T_{prim} = \{5, 7, 3, 2\}$

I5
$$T = \{A, B, G, E, C, D\}$$
 $T_{prim} = \{5, 7, 3, 2, 2\}$

I6
$$T = \{A, B, G, E, C, D, F\}$$
 $T_{prim} = \{5, 7, 3, 2, 4\}$