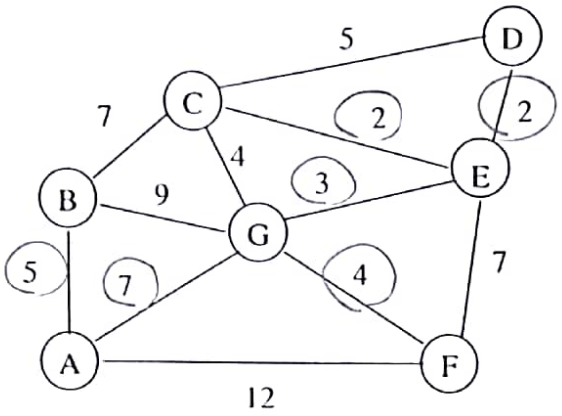
علی تقوی ۹۴۳۱۰۷۵

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

$\{A, B\}$ $AB = ۵$

I2

$\{A, B, G\}$ $AG = ۷$

I3

$\{A, B, G, E\}$ $GE = ۳$

I4

$\{A, B, G, E, C\}$ $EC = ۲$

I5

$\{A, B, G, E, C, D\}$ $ED = ۲$

I6

$\{A, B, G, E, C, D, F\}$ $GF = ۴$

$\oplus \rightarrow ۲۳$