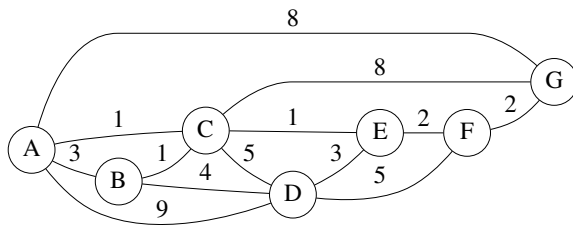


1. Write your name below.

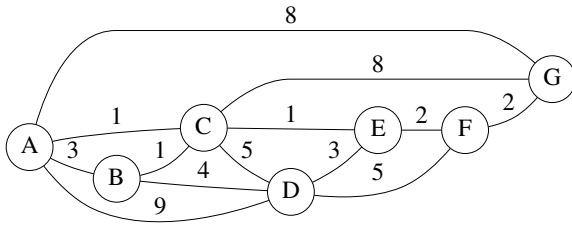
2. Trace the operation of MST-KRUSKAL on the following graph using the conventions of Figure 23.4 (p. 632) of the textbook. In particular:

- depict the state of the algorithm after each iteration of the second for loop;
- highlight edges belong to the forest  $A$  using double-lines; and
- draw an arrow pointing to the edge under consideration.



[additional space for answering the earlier question]

3. Trace the operation of MST-PRIM on the graph of Question 2, with initial vertex  $A$ , using the conventions of Figure 23.5 (p. 635) of the textbook.



[additional space for answering the earlier question]