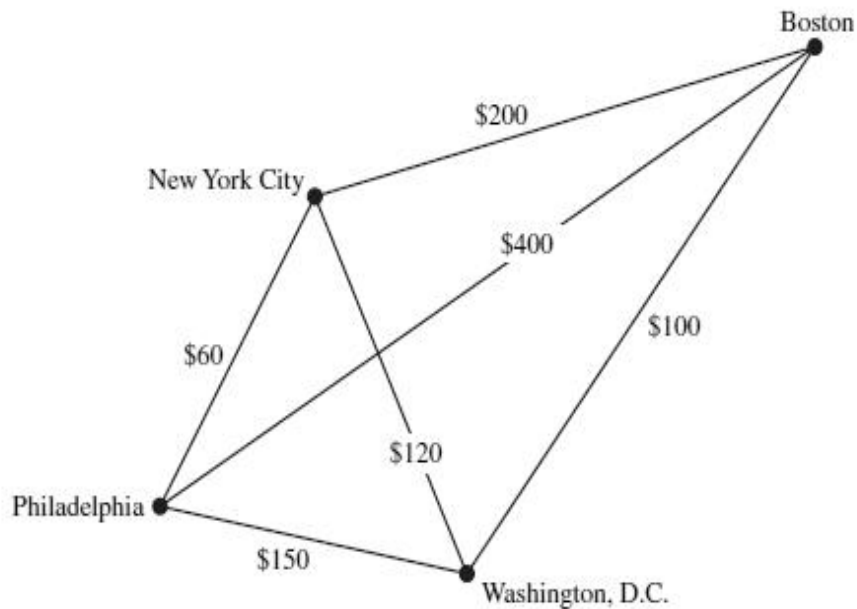


The vertex edge graph below shows airline flight routes and airline fares for travel between pairs of cities.



- Benni is planning to fly from Boston to Philadelphia. Based on the vertex edge graph, list all the possible routes she could take. (Assume that no route would include passing through a city more than once.)
- Which of the possible routes you listed should Benni take if she wants the cost of her trip to be as low as possible? Show or explain how you obtained your answer.
- Suppose that scheduling required Benni to select the most expensive route. Which of the routes you listed would be most expensive? Show or explain how you obtained your answer.