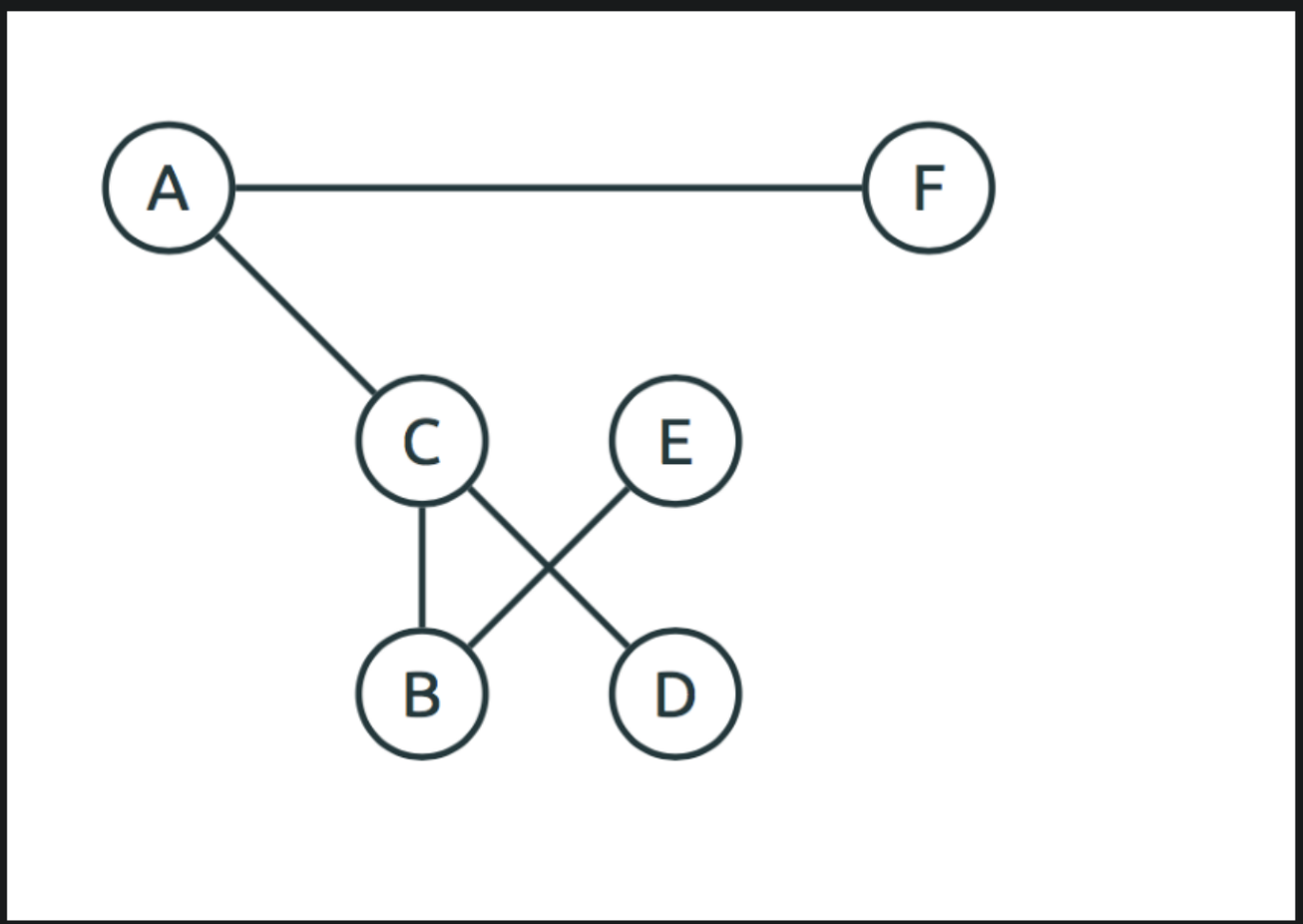
1. How many vertices does a tree with 17 edges have? **1 / 1 point**

- ○ n
- ○ 16
- ○ 17
- ◉ 18

✓ **Correct**
Correct, a tree with n vertices has (n-1) edges.

2. **1 / 1 point**



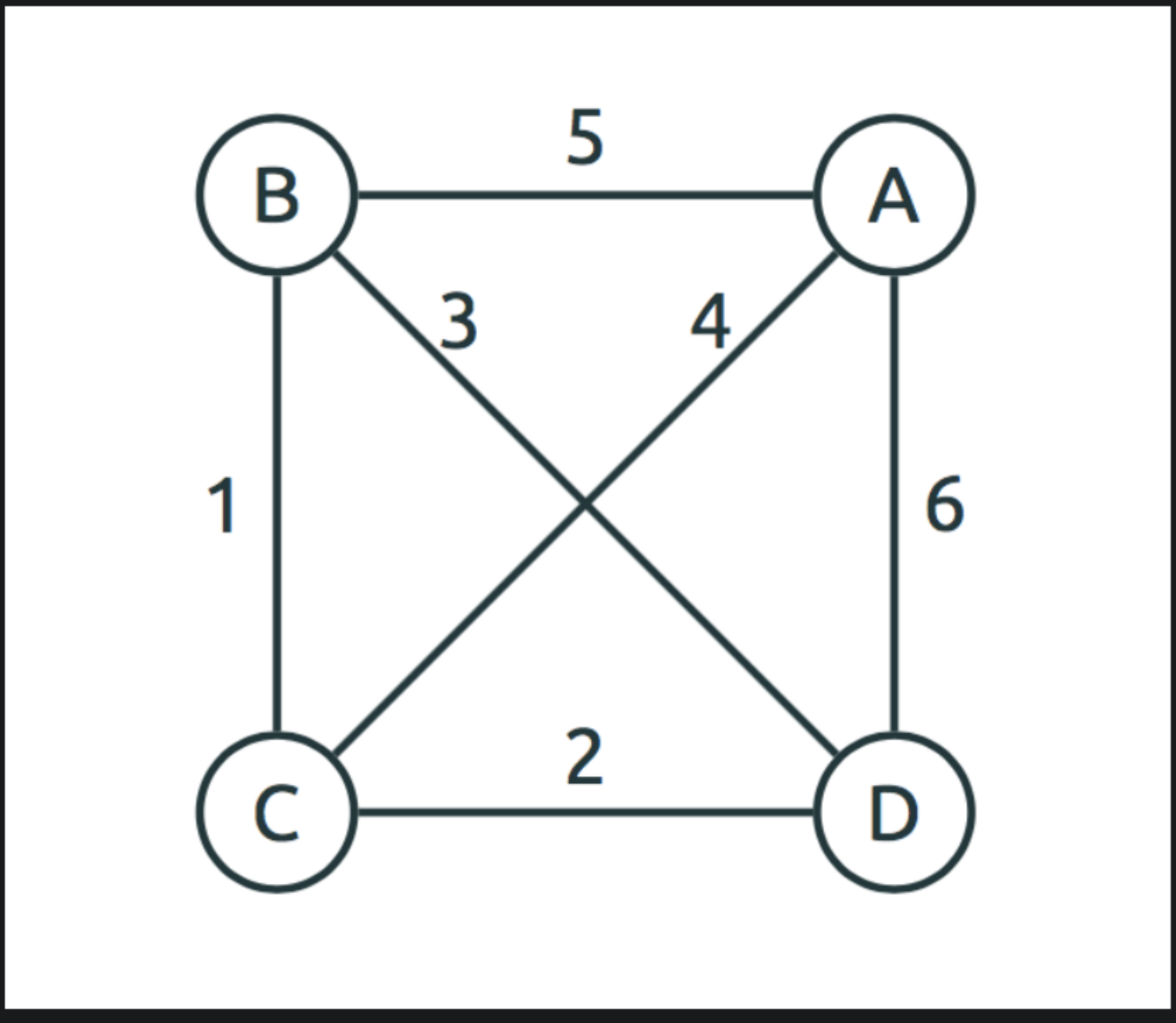
Is this graph a tree?

- ◉ Yes
- ○ No

✓ **Correct**
Correct, this a connected graph with 6 vertices and five edges, so this is a tree.

3.

1 / 1 point



What is the weight of the minimum spanning tree in this graph?

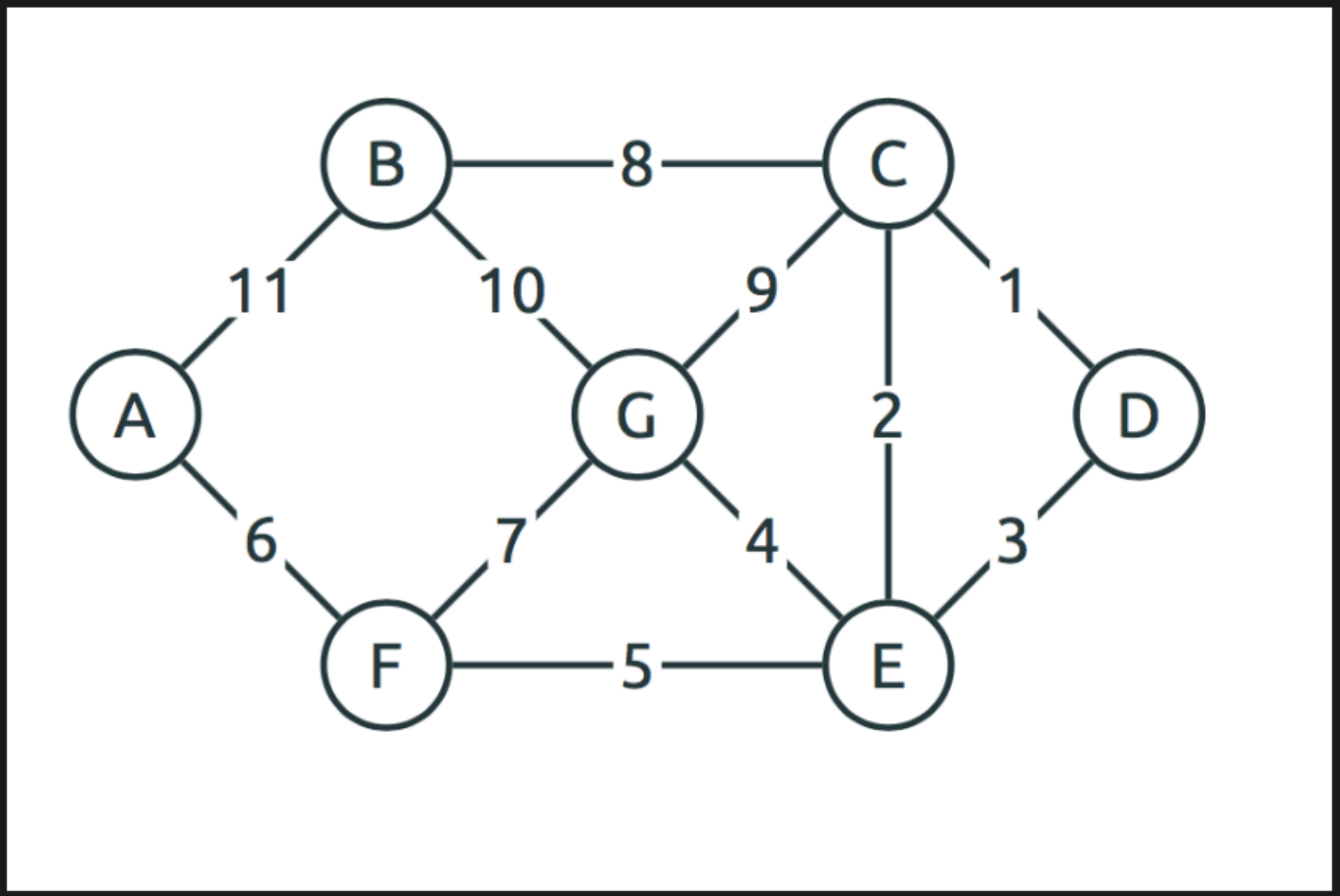
- 5
- 6
- 7
- 8

Correct

Correct, the minimum spanning tree of this graph contains the edges {B,C}, {C,D}, and {A,C}.

4.

1 / 1 point



What are the first three edges chosen by Kruskal's algorithm on this graph?

- (●) {C, D}, {C, E}, {E,G}
- ( ) {B, G}, {C, G}, {A, B}
- ( ) {C, D}, {C, E}, {D, E}
- ( ) {C, D}, {D, E}, {E, G}

Correct

Correct, the three edges of the least weights which don't create cycles.