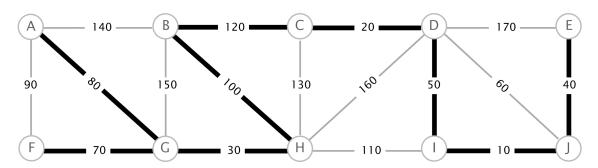
For answers that involve filling-in a ____, fill-in the shape completely: ____.

Consider the following undirected graph G containing 10 vertices and 17 edges with distinct edge weights. The thick black edges T define a spanning tree of G but not a minimum spanning tree of G.

Name: Evil Kevin



1. Which of the following edges are in the (unique) MST of *G*? Mark all that apply.

A-G

□ B-C

□ B-G

В-Н

□ С−Н

□ D−H

D-I

□ D-J

H—I

2. Find a cut in *G* whose minimum weight crossing edge is not an edge in *T*. Mark the vertices on the side of the cut containing vertex A.

A

F

B G

□ CH

□ D

□ E□ J