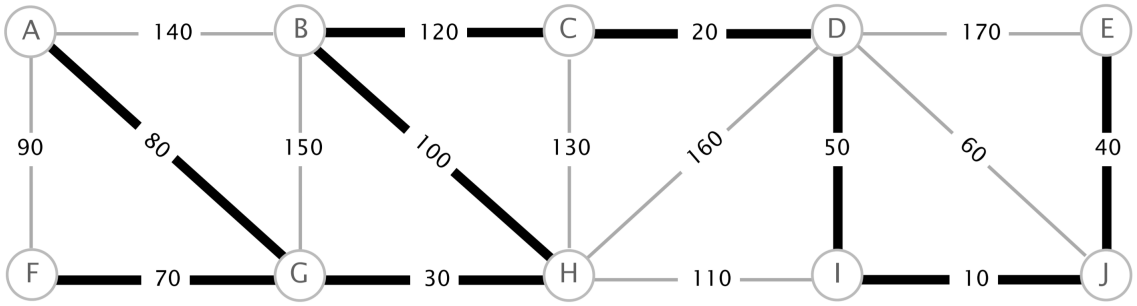
CSE 373 QuickCheck 6 Name: _____ Student ID: _____

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.



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

☐ A—B ☐ A—G ☐ B—C ☐ B—G ☐ B—H
☐ C—H ☐ 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 ☐ B ☐ C ☐ D ☐ E
☐ F ☐ G ☐ H ☐ I ☐ J