For each of the following graphs, list the order in which the vertices are removed from the Priority Queue, and list the shortest path by total weight. Each question is worth two points.

EXAMPLE: Find the shortest path from A to D:

Order Removed: A, C, B, D
Path: A → C → D

1. Find the shortest path from A to E:
2. Find the shortest path from A to G:

3. Find the shortest path from A to C:

4. Find the shortest path from A to D: