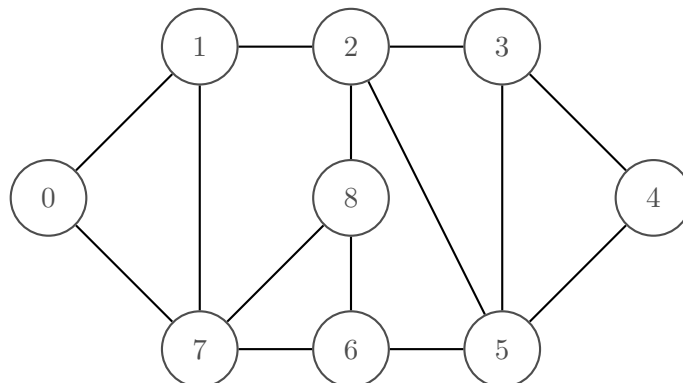


**THE CHINESE UNIVERSITY OF HONG KONG**  
**Department of Mathematics**  
**Exercises on Minimum Spanning Tree**

The following weighted undirected graph has 9 vertices (numbered 0 through 8) and 14 edges with given weights.



**Edge Summary Table**

Edge	Vertices	Weight
$e_{01}$	(0, 1)	4
$e_{07}$	(0, 7)	8
$e_{12}$	(1, 2)	8
$e_{17}$	(1, 7)	11
$e_{23}$	(2, 3)	7
$e_{25}$	(2, 5)	4
$e_{28}$	(2, 8)	2
$e_{34}$	(3, 4)	9
$e_{35}$	(3, 5)	14
$e_{45}$	(4, 5)	10
$e_{56}$	(5, 6)	2
$e_{67}$	(6, 7)	1
$e_{68}$	(6, 8)	6
$e_{78}$	(7, 8)	7

Find the minimum spanning tree using:

1. Kruskal's Algorithm
2. Prim's Algorithm
3. Borůvka's Algorithm
4. Reverse-Delete Algorithm

