

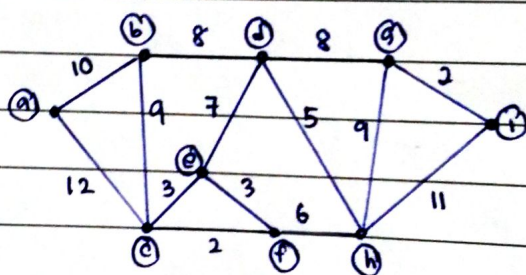
REVISION SET 3

- ① Given $f(x) = 7x + 6$ and $g(x) = 3x - 5$.

Find the value of

- (a) $gf(6)$
- (b) $fg(4)$
- (c) $g^2f(x)$
- (d) $f^2(x)$

- ② Find a minimal spanning tree using Kruskal's algorithm.



- ③ Suppose f is defined recursively by $f(0) = 2$ and $f(n+1) = 3f(n) - 2[3 - f(n)]$.

Identify $f(5)$.

- ④ Produce a recursive definition for $a_n = 7n$ if $n = 1, 2, 3, \dots$