

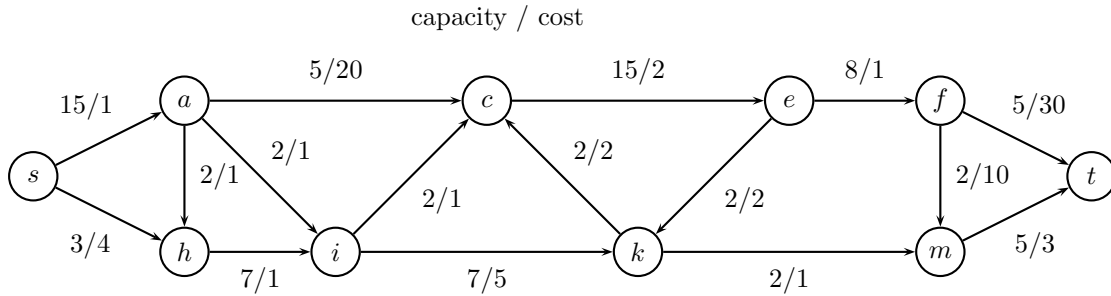
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1. Consider the network below where s is the source and t is the sink.

(a) Compute the minimum cost flow f such that $|f| = 1$.

(b) Compute the minimum cost flow f such that $|f| = 6$.



2. Consider the directed graph G below.

(a) Compute the shortest path from s to t .

(b) Compute two edge-disjoint paths p_1 and p_2 from s to t such that the total length is minimized.

(c) Compute three edge-disjoint paths p_1, p_2, p_3 from s to t such that the total length is minimized.

