

Weekly Problems 7

Due: 19 March 2026 at midnight EST as a PDF on Submittity

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1. Show that for non-adjacent vertices $x, y \in V(G) : \kappa(x, y) = \lambda(x, y)$ by using the concept of network flows. Hint: Consider the following transformation on G : replace each vertex in G with an edge having unit capacity, and give all other edges in G infinite capacity.