MTH 4320 Homework 7

Yaohui Wu

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Problem 1

Solution. We run Prim's algorithm to find a minimum spanning tree (MST) of the graph with root d then the edges added to the MST are $\{d, e\}, \{e, g\}, \{e, h\}, \{b, e\}, \{a, b\}, \{a, c\}, \{c, f\}$ from first to last respectively. ∎

Problem 2

Solution. ∎

Problem 3

Solution. ∎

Problem 4

Solution. ∎