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 $y \in \mathbb{R}^m$. Observations 1. Every $x \in \mathbb{R}^n$ has an image $y \in \mathbb{R}^m$, but every $y \in \mathbb{R}^m$ is not in the image.

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Lu = P(x) 1. Consider the second order formally self-adjoint operator $du + q(x)u$; $a < x < b$ dx dx Assume that it is regular, i.e. a and b are finite and p(x) does

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