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$\mathbb{R}^n \rightarrow \mathbb{R}^m$ ,  $Ax = y$ ,  $x \in \mathbb{R}^n$ ,

$y \in \mathbb{R}^m$ . Observations 1.

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order formally self-

adjoint operator  $\frac{d}{dx}$

$+q(x)u$  ;  $a < x < b$

Assume that it is

regular, i.e.  $a$  and  $b$  are

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