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Examination-2 (Closed
book, closed notes)

December 7, 2018

Time: 2 to 5:00 pm

Name: d 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 not
vanish in $[a, b]$.

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Solution of PDEs by
Similarity solution
method. Similarity
Solution; Similarity
Solution (Contd.)
Solution of PDEs by
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Integral Method;
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Laplace Transform;
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7.3. Finite Difference

Method. 7.4. Orthogonal

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Galerkin Finite Element

Method. 7.7. Cubic

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