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0.2 Introduction to differential equations

Note: more than 1 lecture, §1.1 in [EP], chapter 1 in [BD] 0.2.1 Differential equations ... 3th,

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Vector Fields A Vector field On  $\mathbb{R}^m$  Is A Mapping  $F: \mathbb{R}^m \rightarrow \mathbb{R}^m$  That Assigns A Vector In  $\mathbb{R}^m$  To Any Point In  $\mathbb{R}^m$ . If  $A$  Is An  $M \times M$  matrix, We Can Define A Vector field On  $\mathbb{R}^m$  By  $F(x) = Ax$ . Many Other Vector fields Are Possible, Such As  $F(x) = x^2$

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Figure 4.3.1 Region Beneath The Graph Of  $F(x) = x^2$  Over The Interval  $[0,1]$  But, Since  $F$  Is Integrable, 3th, 2024.

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Differential Equations BERNOULLI EQUATIONSSection 6: Tips On Using Solutions 13 6. Tips On Using Solutions When Looking At The THEORY, ANSWERS, IF METHOD, INTEGRALS Or TIPS Pages, Use The Back Button (at The Bottom Of The Page) To Return To The Exercises. Use The Solutions Intelligently. For Example, They Can Help You Get Started On 4th, 2024

Differential Equations EXACT EQUATIONSShow That Each Of The Following Differential Equations Is Exact And Use That Property To find The General Solution:

Exercise 1.  $x Dy - y x^2 Dx = 0$  Exercise 2.  $2xy Dy Dx + y^2 - 2x = 0$  Exercise 3.

$2(y + 1)exdx + 2(ex - 2y)dy = 0$  Theory Answers Integrals Tips Toc Jj II J I Back 3th, 2024.

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