NOTES, AND HOMEWORK PROBLEMS FOR CALCULUS III

YASHA SAVELYEV

BASIC LINEAR ALGEBRA

Homework set 1. From 1.5: 1, 4, 5
From 1.6: 1, 2, 3, 8a, 9, 10, 12, 15, 16

DERIVATIVES

Homework set 2. 2.1: 1, 2, 3, 4, 5, 7, 8
2.2: 1
3.1 1
3.2 6, 13, 15
3.4 10,11
4.1 2, 3, 4

MAXIMA AND MINIMA

Homework set 3. 5.1: 5, 6, 12
5.2: 1, 2, 4, 5, 8

Homework set 4. 5.3: 1, 5, 6, 10, 12, 25

POTENTIAL FUNCTIONS, LINE INTEGRALS

Homework set 5. 6.2: 3, 4
6.3: 7, 8, 9, 10
7.1: 1, 2
7.2: 5, 6, 8
8.1: 1, 2, 3

Homework set 6. 8.2: 1
8.3: 6,9, 15
9.2: 1:a,b,c,d, 2:a,b, 3

Homework set 7. 9.3: 1,2
10.1: 1:a,b,c, 2

1. Surface Integrals Divergence and Stokes theorem

Homework set 8. 11.3: 1,2
12.1: 2
12.2: 1,2,3

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