

Math 0220 Schedule and Practice Problems

January 10: Review of Trigonometry and Trigonometric Functions

see Lon Capa Folder 1

ed 1: Appendix A

ed 2: Appendix A

January 12: Limits

ed 1: 1.3 Number 1-8, 11, 13, 16, 19, 20

ed 2: 1.3 Number 1-8, 11, 13, 16, 19, 20

January 14 : Calculating Limits

ed 1: 1.4 Number 1-24, 28, 29, 31-37, 43-48

ed 2: 1.4 Number 1-28, 32, 33, 35-38, 41-43

January 19: Continuity

ed 1: 1.5 Number 3-7, 13-16, 23, 24, 29-33, 35-42

ed 2: 1.5 Number 3-9, 15-18, 25, 26, 31-35, 37, 39-44

January 21: Limits involving infinity

ed 1: 1.6 Number 1-5, 9, 10, 13-31, 38, 39, 43, 45

ed 2: 1.6 Number 1-5, 9, 10, 13-33, 40, 41, 47, 49

January 24: Derivatives and rates

ed 1: 2.1 Number 1-20, 23-37, 41-43

ed 2: 2.1 Number 1-22, 25-30, 43-45

January 26: Derivative as a function

ed1: 2.2 Number 1-12, 17-23, 27-31, 33, 39, 40

ed2: 2.2 Number 1-12, 19-25, 33-37, 41, 45, 46

January 28: Derivative formulas

ed 1: 2.3 Number 1-26, 29-44, 49-52

ed 2: 2.3 Number 1-28, 31-46, 51-54

January 31: Products and quotients

ed 1: 2.4 Number 1-30, 33-36, 41-44, 46, 51, 52

ed 2: 2.4 Number 1-30, 33-36, 41-44, 46, 47, 48

February 2: Chain Rule

ed 1: 2.5 Number 1-40, 43-50, 57, 58

ed 2: 2.5 Number 1-48, 51, 53-56, 63

February 4: Implicit Differentiation

ed 1: 2.6 Number 1-26, 31, 39

ed 2: 2.6 Number 1-28, 33, 43

February 7: Related Rates

ed 1: 2.7 Number 1-38

ed 2: 2.7 Number 1-31, 33-42

February 9: Linear Approximation

ed 1: 2.8 Number 1-24

ed 2: 2.8 Number 1-24

February 11: Exponentials, Logs and Inverses

ed 1: 3.1 Number 7-18, 23-30

ed 1: 3.2 Number 3-26, 31-38, 43-54, 59-66, 69-74

ed 2: 3.1 Number 7-18, 23-30

ed 2: 3.2 Number 3-26, 31-34, 43-54, 59-60, 63-68, 71-76

February 14: Derivatives of logs and exponentials

ed 1: 3.3 Number 1-42, 45-58

ed 2: 3.3 Number 1-46, 51-64

February 16: Derivatives of logs and exponentials (cont)

February 18:

Review

February 21

Exam I

February 23: Inverse trig functions

ed 1: 3.5 Number 1-10, 16-38

ed 2: 3.5 Number 1-10, 16-38

February 25: Hyperbolic functions

ed 1: 3.6 Number 1-19, 26-41

ed 2: 3.6 Number 1-19, 26-41

February 28: L'Hopital's Rule

ed 1: 3.7 Number 1-36, 46

ed 2: 3.7 Number 1-38, 50

March 2: Extrema

ed 1: 4.1 Number 3-10, 15-48, 64

ed 2: 4.1 Number 3-10, 15-48

March 4: Mean Value Theorem

ed 1: 4.2 Number 5, 15, 17, 18, 23, 27, 29

ed 2: 4.2 Number 5, 15, 19, 20, 23, 27, 29

March 14: Shape of graphs

ed 1: 4.3 Number 1-10, 13-17, 21-42

ed 2: 4.3 Number 1-12, 15-19, 23-44

March 16: Curve Sketching

ed 1: 4.4 Number 1-44

ed 2: 4.4 Number 1-44

March 18: Optimization

ed 1: 4.5 Number 7-17, 23, 46, 48

ed 2: 4.5 Number 9-19, 22, 23, 28, 54, 56

March 21: Newton's Method

ed 1: 4.6 Number 1, 2, 4-7, 9-12

ed 2: 4.6 Number 1, 2, 4, 6-8, 11-14

March 23: Antiderivatives

ed 1: 4.7 Number 1-20, 31-37, 46

ed 2: 4.7 Number 1-26, 37-43, 52

March 25: Area and distance

ed 1: 5.1 Number 1-5, 7-9, 11, 12

ed 2: 5.1 Number 1-5, 9-11, 13, 14

March 28: Definite integral

ed 1: 5.2 Number 1-4, 7, 9-14, 29-36, 45-47

ed 2: 5.2 Number 1-4, 7, 9-14, 29-36, 47-49

March 30: Evaluating integrals

ed 1: 5.3 Number 1-32, 45-62

ed 2: 5.3 Number 1-36, 49-66

April 1: Fundamental Theorem of Calculus

ed 1: 5.4 Number 1-18, 25-28

ed 2: 5.4 Number 1-18, 25-28

April 4: Review**April 6: Exam 2****April 8: Substitution**

ed 1: 5.5 Number 1-50

ed 2: 5.5 Number 1-52

April 11: Substitution (cont)

ed 1: 5.5 Number 1-50

ed 2: 5.5 Number 1-52

April 13: Integration by parts

ed 1: 6.1 Number 1-28

ed 2: 6.1 Number 1-30

April 15: Trigonometric integrals

ed 1: 6.2 Number 1-34

ed 2: 6.2 Number 1-34

April 18: Trigonometric Substitutions

ed 1: 6.2 Number 37-62

ed 2: 6.2 Number 35-64

April 20: Review

April 22: Review

TBA:

Final Exam (all day sections)