

# Math 0220 Schedule and Practice Problems

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## August 29: Review of Trigonometry and Trigonometric Functions

ed 1: Appendix A

ed 2: Appendix A

See LON-CAPA Folder 1

## August 31: 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

## September 2: 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

## September 7: 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

## September 9: 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

## September 12: 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

## September 14: 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

## September 16: Derivative Formulas

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

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

## September 19: 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

## September 21: Chain Rule

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

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

## September 23: Implicit Differentiation

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

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

## September 26: Related Rates

ed 1: 2.7 Number 1-38

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

## September 28: Linear Approximation

ed 1: 2.8 Number 1-24

ed 2: 2.8 Number 1-24

## September 30: 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

**October 3: Derivatives of Logs and Exponentials**

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

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

**October 5: Derivatives of Logs and Exponentials (cont)****October 7: Review****October 10: Exam I****October 12: Inverse Trig Functions**

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

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

**October 17: Hyperbolic Functions**

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

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

**October 19: L'Hopital's Rule**

ed 1: 3.7 Number 1-36, 46

ed 2: 3.7 Number 1-38, 50

**October 21: Extrema**

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

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

**October 24: 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

**October 26: 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

**October 28: Curve Sketching**

ed 1: 4.4 Number 1-44

ed 2: 4.4 Number 1-44

**October 31: Optimization**

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

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

**November 2: 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

**November 4: Antiderivatives**

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

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

**November 7: 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

**November 9: 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

**November 11: Evaluating Integrals**

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

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

**November 14: Fundamental Theorem of Calculus**

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

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

**November 16: Review**

**November 18: Exam 2**

**November 28: Substitution**

ed 1: 5.5 Number 1-50

ed 2: 5.5 Number 1-52

**November 30: Substitution (cont)**

ed 1: 5.5 Number 1-50

ed 2: 5.5 Number 1-52

**December 2: Integration by Parts**

ed 1: 6.1 Number 1-28

ed 2: 6.1 Number 1-30

**December 5: Trigonometric Integrals**

ed 1: 6.2 Number 1-34

ed 2: 6.2 Number 1-34

**December 7: Trigonometric Substitutions**

ed 1: 6.2 Number 37-62

ed 2: 6.2 Number 35-64

**December 9: Review**

**December 15: Final Exam at 4:00-5:50pm (all day sections)**