

FALL 2013
THE UNIVERSITY OF TULSA
MATH 2024 CALCULUS II-3

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OFFICE HOURS: M-F 2-3PM and by arrangement
SECTION 3: MWF 1:00-2:00PM KEP U 376

There are many different Calculus II quiz sections (problem-solving sections). Each student is required to attend the assigned quiz section. Quiz sections meet twice a week, Tuesdays and Thursdays.

TEXTS, CALCULATOR, AND COURSE DIRECTORY:

Calculus - Early Transcendentals

Edition 7E

James Stewart

Brooks/Cole, 2012

ISBN-10: 0-538-49790-4

Student Solutions Manual

Daniel Anderson, Jeffery A. Cole, Daniel Drucker

Brooks/Cole, 2012

ISBN-10: 0-8400-4934-X

A graphing calculator is required for **numerical** and **graphing** work.

There is a course directory on the College of Engineering and Natural Sciences computer network:
SharedSpace (S:) \ENS \Mathematics \Math2024 \Fall2013

MINIMUM REQUIRED HOMEWORK:

You learn calculus by doing it. The problem assignments at the end of each section and in the chapter reviews represent the **minimum required** homework, and you should concentrate on doing the problems until you can both **solve** and **understand** them completely. If, after doing the problems once, you find that your understanding is inadequate, then do them again. You can help to ensure that you receive a good course grade by doing additional homework. Notice that the test questions are similar (if not identical) to the homework, which counts for 60% of the course grade. Also, every quiz question is taken **exactly** from the homework. Quizzes count for 20% of the course grade. The submitted homework counts for 12% of the course grade. Therefore, 92% of the course grade is based on the homework. Success in doing the homework is a **prerequisite** for success in the course. **Please take the homework very seriously!**

COURSE GRADE:

The course grade is a **weighted average** of the grades of the following six items: test #1, test #2, test #3, submitted homework (HW), quizzes, and *Mathematica* lessons. A missed test, etc., without an excused absence is assigned a zero grade.

Tests (3)	300	points (Optional Final Exam replaces lowest test grade.)
HW	60	($\frac{1}{2}$ for presentation/writing/English and $\frac{1}{2}$ for solution.)
Quizzes	100	(10 points each, with the lowest 2 quiz grades dropped.)
<u>Lessons</u>	<u>40</u>	(<i>Mathematica</i> lessons 1 – 4, 10 points each.)
Total	500	points

TESTS:

The **3 tests** and the **optional final exam** (see below) are similar to homework problems, examples done in the text, and examples done in class and quiz sections. Each test counts 100 points.

WRITTEN HOMEWORK:

Certain homework problems are assigned with due dates and collected in your quiz sections. These problems must be solved correctly and clearly. The problem solutions must be written using correct mathematical notation and good English, with complete sentences (as appropriate) and correct grammar and spelling. It is appropriate for you to work on homework problems with other students, but the work that you **submit** must be your own and **must look significantly different** from that of any other student. Homework, etc., that **looks similar** to that submitted by another student (or given in a solutions manual, etc.) receives a grade of **zero**. **No late homework is accepted unless there is an excused absence.**

Some problems are solved by hand, and some problems (those indicated with an asterisk, *) are solved using *Mathematica*. Each submitted homework assignment is worth 10 points, with 5 points assigned for presentation/writing, and 5 points assigned for solution correctness. Each submitted homework assignment contains 3 problems, for a total of 30 points per assignment. The 10 assignments add to a total of 300 possible points, which will be converted (by dividing by 5) to a scale of 60 points maximum at the end of the semester. This is the homework grade (HW).

QUIZZES:

There is an approximately 10-minute quiz each Thursday, with some exceptions. The quiz problems are selected from the assigned homework problems from **Wednesday and Friday of the previous week and Monday of that week**. The two lowest quiz grades are dropped, and the remaining 10 quiz grades are added (and count as 100 points in your course grade, as described above).

MATHEMATICA:

Mathematica is taught as part of this course and is to be used, as appropriate, for homework. Your introduction to *Mathematica* takes place in computer labs L1 or L2 during one or two of the regularly scheduled quiz classes. Homework problems assigned during the semester for which *Mathematica* **must** be used are marked with asterisks, *, on the assignment pages. The notebooks for these problems are to be printed and submitted with your other homework problems. Some files that are useful for homework, projects, etc., will be provided in the course directory. *Mathematica* is available as a **free** download to all TU students, and you may install it on your personal computer.

MATHEMATICA LESSONS:

The *Mathematica* lessons involve work outside of class. The grading for the lessons is as follows. There are 4 beginning *Mathematica* lessons (not counting Lesson 0). Each *Mathematica* lesson is worth 10 points, giving a total of 40 points. For each *Mathematica* lesson, the writing and presentation are worth 4 points, and the solution procedures and accuracy of the answers are worth 6 points (giving the total of 10 points per *Mathematica* lesson, as described above). Only specific, select problems from the lessons are graded, but you will **not** know in advance which problems these are.

FINAL EXAM:

There is an **optional cumulative final exam**. If you are satisfied with your course grade prior to the final exam, then you need not take the final exam. If you choose to take the final exam, then the final exam grade replaces the lowest **test** grade. (If the final exam grade is lower than each of the three test grades, then the final exam grade is dropped). Note that the final exam **cannot** replace the homework, quiz, or lesson grades. If you have a conflict with the final exam date/time, then please notify the professor within the first two weeks of the semester.

Schedule for Optional Final Exam:

Cook: MATH 2024-3, Wednesday, December 18, 1:00PM-3:25PM

CLASS ATTENDANCE:

Attendance may be taken in lecture/quiz sections. Repeated unexcused absences are not acceptable.

MISSED WORK:

If a student is absent on a test day and has a valid excuse (e.g., those acceptable to the Center for Student Academic Support), then a make-up test can be arranged. If a make-up test is not taken within a reasonable period of time after a student returns to class, then the missed work corresponds to a grade of zero. **Work must be submitted on time.**

ACADEMIC MISCONDUCT:

The College of Engineering and Natural Sciences policy on academic misconduct is followed. <http://www.utulsa.edu/academics/colleges/College-of-Engineering-and-Natural-Sciences/Advising/ENS-Undergraduate-Advising/undergraduate-academic-misconduct-policy.aspx>

CENTER FOR STUDENT ACADEMIC SUPPORT:

Students with disabilities should contact the Center for Student Academic Support to self-identify their needs in order to facilitate their rights under the Americans with Disabilities Act. The Center for Student Academic Support is located in Lorton Hall, Room 210 (x2315). All students are encouraged to familiarize themselves with and take advantage of services provided by the Center for Student Academic Support such as tutoring, academic counseling, and assistance with developing study skills. The Center for Student Academic Support provides confidential consultations to any student with academic concerns, as well as to students with disabilities.

COURSE TOPICS:

CHAPTER 5. INTEGRALS.

Brief Review of: 5.1-5.4 Areas and Distances, The Definite Integral, The Fundamental Theorem of Calculus, Indefinite Integrals and the Net Change Theorem; 5.5 The Substitution Rule.

CHAPTER 6. APPLICATIONS OF INTEGRATION.

6.1 Areas between Curves, 6.2 Volumes, 6.3 Volumes by Cylindrical Shells, 6.4 Work, 6.5 Average Value of a Function.

CHAPTER 7. TECHNIQUES OF INTEGRATION.

7.1 Integration by Parts, 7.4 Integration of Rational Functions by Partial Fractions, 7.6 *Brief Introduction to:* Integration Using Tables and Computer Algebra Systems, 7.7 Approximate Integration, 7.8 Improper Integrals.

CHAPTER 8. FURTHER APPLICATIONS OF INTEGRATION.

8.1 Arc Length, 8.3 Applications to Physics and Engineering.

CHAPTER 10. PARAMETRIC EQUATIONS AND POLAR COORDINATES.

10.1 Curves Defined by Parametric Equations, 10.2 Calculus with Parametric Curves, 10.3 Polar Coordinates, 10.4 Areas and Lengths in Polar Coordinates.

CHAPTER 11. INFINITE SEQUENCES AND SERIES.

11.1 Sequences, 11.2 Series, 11.3 The Integral Test and Estimates of Sums, 11.4 The Comparison Tests, 11.5 Alternating Series, 11.6 Absolute Convergence and the Ratio and Root Tests, 11.7 Strategy for Testing Series, 11.8 Power Series, 11.9 Representation of Functions as Power Series, 11.10 Taylor and Maclaurin Series, 11.11 Applications of Taylor Polynomials.

CHAPTER 9. DIFFERENTIAL EQUATIONS.

9.1 Modeling with Differential Equations, 9.2 Direction Fields and Euler's Method, 9.3 Separable Equations.

APPENDIX H. COMPLEX NUMBERS.

TU Fall 2013 - Calculus II - Math 2024 - Schedule

<u>Week</u>		<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
August	26	Brief Review 5.1-5.4; 5.5	Review 5.1-5.4	5.5; 6.1	Quiz #1	6.1; 6.2
September	2	Holiday	Proj 1A; Hmwk #1 due	6.2	Proj 1B	6.3
	9	6.4	Hmwk #2 due	6.5; 7.1	Proj 1C; Quiz #2	7.1
	16	7.4 †	Proj 1D; Hmwk #3 due	7.6 †; 7.7 †	Quiz #3	7.8
	23	7.8, 8.1	Hmwk #4 due	8.1; 8.3 †	Quiz #4	10.1
	30	Review	Review	Test #1	Quiz #5	10.2 †
October	7	10.3	Hmwk #5 due	10.4	Quiz #6	10.4; 11.1 †
	14	11.1 †, 11.2	Hmwk #6 due	11.2	Quiz #7	11.3 †
	21	11.4 †	Hmwk #7 due	11.5	Quiz #8	11.6
	28	Review	Review	Test #2	Quiz #9	11.6; 11.7
November	4	11.8	Hmwk #8 due	11.8; 11.9	Quiz #10	11.9
	11	11.10 †	Hmwk #9 due	11.10 †; 11.11 †	Quiz #11	11.11 †
	18	9.1	Hmwk #10 due	9.2	Quiz #12	9.3 †
	25	Thanksgiving		Vacation		Week
December	2	Appendix H	Review	Review	Review	Test #3
	9	Last class day; Return Test #3; Discuss optional final exam	Reading Days			
	16			<u>Section 3 Optional Final Exam Wednesday Dec. 18, 2013 1:00-3:25 PM</u>		

Generally, homework is submitted on Tuesdays, and quizzes are given on Thursdays.

† Part of the section is skipped.

Homework Problems
Math 2024 — Calculus II
Minimum Required Homework for Chapter 5

Text: **Calculus - Early Transcendentals - Edition 7E**, James Stewart; Brooks/Cole, 2012

Section 5.1: Review: 1ab, 15, 19

Section 5.2: Review: 1, 5, 7, 17, 19, 29, 42, 43, 47

Section 5.3: Review: 1, 3abcd, 5, 7, 13, 19, 21, 23, 25

Section 5.4: Review: 1, 5, 7, 11, 21, 23, 27, 31, 51, 57

Section 5.5: 1, 3, 5, 7, 11, 13, 15, 17, 21, 25, 27, 33, 49, 51, 53, 55, 59, 69, 81, 83, 85

Ch.5 Review (p. 415): Concept Check: #1abc, 2abc, 3, 4ab, 5ab, 6ab, 7, 8;

True/False Quiz: 1, 2, 3, 4, 6, 7, 8, 11, 12, 13, 14, 15;

Exercises: #1, 5, 7, 8c, 9, 11, 13, 17, 19, 25, 29, 33, 43, 45, 47, 55, 57.

Graded assignments to submit:

Homework #1 due Tuesday, September 3, 2013: Sec. 5.2 #20, #21

(For #21, use the technique of Example 2(b), page 376; use formula 5, page 374; and take the evaluation points to be the right endpoints for each subinterval. Check your result using integration rules).

Sec. 5.5 #54.

** Use Mathematica to solve; print notebook to submit.*

Homework Problems

Math 2024 — Calculus II

Minimum Required Homework for Chapter 6

Text: **Calculus - Early Transcendentals - Edition 7E**, James Stewart; Brooks/Cole, 2012

Section 6.1: 1, 3, 5, 9, 11, 13, 17, 19, 23, 25, 27, 29, 33, 43, 45, 47, 51, 53

Section 6.2: 1, 3, 5, 7, 9, 11, 15, 17, 19, 21, 23, 25, 27, 29, 31, 39, 43, 47, 49, 51

Section 6.3: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21a, 23a, 25a, 29, 45, 47

Section 6.4: 1, 2, 3, 5, 7, 9, 13, 15, 17, 19, 21, 23, 27, 29

Section 6.5: 1, 3, 5, 7, 9, 13, 17, 19

Ch.6 Review (p. 457): Concept Check: #1ab, 3ab, 4abc, 5, 6ab;
Exercises: #1, 3, 7, 9, 13, 15abc, 23, 27, 29a.

Graded assignments to submit:

Homework #2 due Tuesday, September 10, 2013: Sec. 6.1 #8, #12; Sec. 6.2 #8.

Homework #3 due Tuesday, September 17, 2013: Sec. 6.3 #8, #34*.
Chapter Review, page 458 #28* (Let $y=0$ correspond to the top of the elevator shaft).

** Use Mathematica to solve; print notebook to submit.*

Homework Problems

Math 2024 – Calculus II

Minimum Required Homework for Chapter 7

Text: **Calculus - Early Transcendentals - Edition 7E**, James Stewart; Brooks/Cole, 2012

Section 7.1: 1, 3, 5, 7, 9, 15, 17, 19, 23, 27, 29, 37, 39, 51, 57, 61, 63

Section 7.4 †: 1ab, 3ab, 5ab, 7, 9, 11, 15, 17, 19, 21, 23, 65 (Skip Case IV: $Q(x)$ contains a repeated irreducible quadratic factor; Skip rationalizing substitutions; p. 492)

Section 7.6 †: No homework problems (Read Section 7.6)

Section 7.7 †: 1abcd, 3ab, 7ab, 9ab, 11ab, 29ab (Skip error bounds; Simpson's rule; pp. 510-515)

Section 7.8: 1abcd, 3, 5, 7, 9, 11, 13, 19, 21, 27, 29, 31, 33, 41, 49, 51, 53, 57, 61, 63, 71ab

Ch.7 Review (p. 518): Concept Check: #1, 4, 5, 6abc, 7abc, 8;

True/False Quiz: 1, 2, 3, 4, 5, 6, 8, 9ab, 12;

Exercises: #1, 3, 5, 9, 15, 19, 41, 43, 47, 63ab (use $n=3$), 71ab.

Graded assignments to submit:

Homework #4 due Tuesday, September 24, 2013:

Sec. 7.1 #24 Do by hand, #24* (Verify that hand-calculation and *Mathematica* answers agree.)

Sec. 7.4 Step 1: Solve #70*(a) Do this by using *Mathematica's* `Apart[...]` command.

Step 2: Using $f(x)$ exactly as it appears in the book, replace x with t and then calculate the integral for negative x using: Assuming[$x < 0$, $\int_0^x f[t] dt$] and call the result $F1[x]$.

Step 3: Calculate the integral of each individual term found in Step 1 one term at a time using the method shown in Step 2, and then add terms to get $F2[x]$.

Step 4: Show that $F1[x] = F2[x]$ by having *Mathematica* simplify $F1[x] == F2[x]$.

Step 5: Plot $F1[x]$ for $-4 < x < 0$ to see that it has a local minimum between $-1 < x < -0.5$

Step 6: Use *Mathematica's* `NSolve[... , x]` to calculate this local minimum's location.

Step 7: Explain each step clearly in your own words, and submit the *Mathematica* notebook.

* Use *Mathematica* to solve; print notebook to submit.

Homework Problems

Math 2024 – Calculus II

Minimum Required Homework for Chapter 8

Text: **Calculus - Early Transcendentals - Edition 7E**, James Stewart; Brooks/Cole, 2012

Section 8.1: 1, 3, 5, 7, 9, 11, 13 (You can use Formula #13 from the Integral Table inside back cover of textbook), 33

Section 8.3 †: (Skip hydrostatic pressure and force; pp. 552-554) 21, 23, 25, 27, 29, 31, 33, 35

Ch.8 Review (p. 562): Concept Check: #1abc, 4ab;
Exercises: #1, 3a, 7, 11, 13.

Graded assignments to submit:

Homework #5 due Tuesday, October 8, 2013: Sec. 7.8 #30; Sec. 8.1 #22* (Use Mathematica).
Sec. 8.3 #38*.

(Note that this assignment is due after test #1. Get feedback, as needed, before test #1.)

* *Use Mathematica to solve; print notebook to submit.*

Homework Problems
Math 2024 – Calculus II

Minimum Required Homework for Chapter 10

Text: **Calculus - Early Transcendentals - Edition 7E**, James Stewart; Brooks/Cole, 2012

Section 10.1: 1, 3, 5ab, 9ab, 11ab, 13ab, 15ab, 19, 21, 23, 24abcd, 25, 27, 31ab, 37abc, 45ab

Section 10.2 †: 1, 3, 5, 7, 9, 11, 15, 17, 25, 29, 31, 33, 37, 41, 45, 51 (Skip surface area; p. 650)

Section 10.3: 1abc, 3abc, 5ab, 7, 11, 13, 15, 17, 21, 23, 25, 27ab, 29, 31, 33, 37, 47, 55, 57, 59, 61

Section 10.4: 1, 3, 5, 7, 9, 23, 27, 31, 45, 47 (Use your calculator or *Mathematica* to do the integration)

Ch.10 Review (p. 685): Concept Check: #1ab, 2ab, 3a, 4abc, 5abc;

True/False Quiz: 1, 2, 3;

Exercises: #1, 3, 5, 7ab, 9, 15, 17, 21, 23, 25, 27, 37, 39.

Graded assignments to submit:

Homework #6 due Tuesday, October 15, 2013: Sec. 10.1 #28; Sec. 10.2 #10*.
Sec. 10.3, #70* (Use *Mathematica*).

Homework #7 due Tuesday, October 22, 2013: Sec. 11.1 #58*; Sec. 11.2 #14*, #36.

* Use *Mathematica* to solve; print notebook to submit.

Homework Problems
Math 2024 — Calculus II
Minimum Required Homework for Chapter 11

Text: **Calculus - Early Transcendentals - Edition 7E**, James Stewart; Brooks/Cole, 2012

Section 11.1 †: 1abc, 2ab, 3, 5, 7, 9, 13, 15, 19, 23, 25, 27, 29, 31, 33, 35, 37, 43, 45, 57, 65ab, 71, 73, 75, 77 (Skip ϵ material; p. 692 and p. 698)

Section 11.2: 1ab, 2, 3, 5, 7, 9, 15ab, 17, 19, 23, 27, 29, 35, 37, 49abcd, 51, 57, 59, 61, 63, 67, 73, 85

Section 11.3 †: 1, 2, 3, 5, 7, 9, 11, 13, 15, 21, 27, 29 (Skip estimating sum of a series; pp. 718-720)

Section 11.4 †: 1ab, 2ab, 3, 5, 7, 11, 15, 17, 21, 23, 25, 37 (Skip estimating sums; pp. 725-726)

Section 11.5: 1abc, 3, 5, 7, 9, 11, 15, 17, 19, 21, 23, 24, 25, 27, 29, 31, 32

Section 11.6: 1abc, 3, 5, 7, 13, 17, 21, 29, 35abcd, 37ab (Skip proof; pp. 734-735)

Section 11.7: 1, 3, 5, 7, 9, 11, 13, 19, 21, 27, 31, 37

Section 11.8: 1, 2ab, 3, 5, 7, 9, 11, 15, 17, 19, 23, 25, 29ab, 33

Section 11.9: 1, 2, 3, 5, 7, 11, 13abc, 15, 25, 26, 27, 29, 30, 32, 37ab, 39

Section 11.10 †: 1, 2a, 3, 4, 5, 6, 7, 9, 13, 14, 15, 16, 17, 19, 20, 27, 29, 31, 33, 34, 38, 39, 41, 47, 48, 49, 52 Hint: It alternates, 54 Hint: It alternates, 55, 57, 59, 63 (Skip Taylor's inequality, and related material; pp. 756-757; Skip Example 2 and Eq. 14 p. 758, material on proving that the Taylor series converges to the function of interest)

Section 11.11 †: 1abc, 3, 5, 7, 9, 13a, 15, 18, 19a, 21a, 27 (Use the alternating series error estimation theorem, p. 712), 28; (Skip error estimation in Section 11.11)

Ch.11 Review (p. 778): Concept Check: #1abcd, 2abc, 3ab, 4, 5abcdefg, 6abc, 7c, 8abc, 9ab, 10abc, 11abcd;

True/False Quiz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20;

Exercises: #1, 3, 4, 5, 6, 11, 12, 13, 14, 15, 21, 23, 27, 40, 41, 42, 43, 45, 47, 49, 51, 57a, 59.

See next page for Chapter 11 graded assignments to submit.

Graded assignments to submit:

Homework #8 due Tuesday, November 5, 2013:

(Note that this assignment is due after test #2. Get feedback, as needed, before test #2.)

Sec. 11.3 #36*,

Step 1: Evaluate exactly the series in part (a) with *Mathematica* using \sum .

Step 2: Do part (a) using the \sum command from 1 to 10 and the $N[\text{---}]$ command.

Then subtract the results from steps 1 and 2 to calculate the exact error $|s - s_{10}|$.

Step 3: Do part (b).

Step 4: Do part (c) using the exact result from Step 1.

Step 5: Do part (d) using the ideas from Example 5 on p. 718.

Sec. 11.4 #22.

Sec. 11.5 #6.

Homework #9 due Tuesday, November 12, 2013:

Sec. 11.6 #24*, Do BOTH the root and the ratio tests using *Mathematica*'s $\text{Limit}[\text{---} , n \rightarrow \infty]$.

Sec. 11.7 #6. Do BOTH the limit comparison test and the integral test.

Sec. 11.8 #12.

Homework #10 due Tuesday, November 19, 2013:

Sec. 11.10 #10, 48, You don't need to find the radius of convergence.

Sec. 11.10 #51*,

Step 1: Evaluate the definite integral exactly using *Mathematica*.

Step 2: Convert the exact answer to a decimal answer using the $N[\dots]$ command.

Step 3: Calculate the power series of $x^3 \text{ArcTan}[x]$ about 0 using the $\text{Series}[\dots , \{x, 0, 14\}]$ command in order to determine the general form of the alternating power series in x . Determine a formula to express this infinite series in x using the \sum notation.

Step 4: Have *Mathematica* evaluate this infinite series to verify that it sums to $x^3 \text{ArcTan}[x]$.

Step 5: From the series in Step 4, write down a new infinite series for the indefinite integral in x . (Integrate term-by-term by hand to get this new infinite series and put in \sum notation).

Step 6: Replace x with $\frac{1}{2}$ in Step 5 to get an infinite series for the definite integral from 0 to $\frac{1}{2}$.

Step 7: Have *Mathematica* evaluate the infinite series from Step 6 to get the exact integral value. (Hint: It may not look anything like the corresponding answer from Step 1).

Step 8: Convert the exact answer for Step 7 into a decimal answer using the $N[\dots]$ command. (The answers from Step 2 and Step 8 should be the same.)

Step 9: Determine the minimum number of terms, n , required to get 4 decimal places of accuracy using the alternating series error estimation theorem and the result for b_{n+1} from Step 6. (Hint: Use the $\text{Reduce}[\dots < .0001, n, \text{Reals}]$ command to solve the inequality for n .)

* Use *Mathematica* to solve; print notebook to submit.

Homework Problems

Math 2024 — Calculus II

Minimum Required Homework for Chapter 9

Text: **Calculus - Early Transcendentals - Edition 7E**
James Stewart; Brooks/Cole, 2012

Section 9.1: 1, 3ab, 5abcd, 7abcd, 9abc, 11ab, 13abcd

Section 9.2: 1ab, 3, 4, 5, 6, 7abc, 9, 11, 19abc, 20, 21, 23

Section 9.3 †: 1, 3, 5, 7, 11, 13, 15, 19, 39, Use $P(0) = 0$; (Skip material on orthogonal trajectories and mixing problems; pp. 597-599)

Ch. 9 Review (p. 629): Concept Check: #1abc, 2, 3, 4, 5;
True/False Quiz: 1, 2, 3, 4;
Exercises: #1ab, 3ab, 4abc, 7, 9.

Minimum Required Homework for Appendix H

Homework (Page A 64): 1, 3, 5, 11, 13, 15, 17, 19, 25, 27, 29, 31, 33, 35, 36, 41, 42, 43, 45, 46.