



Calculus Placement with ALEKS PPL

At California State University, Fresno



ALEKS PPL

Designed to help put you in the correct math course:

- Math 3 College Algebra
- Math 5 Trigonometry
- Math 6 Precalculus
- Math 70 Calculus for Life Sciences
- Math 75A Calculus 1 (year-long)
- Math 75 Calculus 1 (semester-long)
- The review is tailored specifically to students' personal math ability.
- There are multiple assessments - no single high stakes placement
- No surprise questions - review in the system shows you all the questions types with guides to solve them



Who takes it?

- Students who have decided to go to Fresno State.
- Students who plan to take an engineering, science, or mathematical major OR are undecided but leaning in that direction.

This is not a general placement for all incoming students, **ONLY** students who plan on going into the majors listed above.

Multiple Measures Assessment still applies to all students: these students who are categories 3 or 4 will be sent to Math 3L, College Algebra with Corequisite Support **UNLESS** they place into a higher course via ALEKS PPL.



What do students need?

1. Fresno State Log in (comes with email address)
2. Photo ID
3. Computer or Tablet with internet and webcam
 - a. Chromebooks do NOT work
 - b. DiscoverE at Fresno State can assist with support
<https://www.fresnostate.edu/president/discovere/>
4. Paper, Pen, and Pencil
5. 6-10 hours minimum time dedicated to placements.

This is offered at no charge to students.

How do they start? Log-in!

FRESNO STATE | Discovery. Diversity. Distinction.

Department of Mathematics
COLLEGE OF SCIENCE AND MATHEMATICS

HOME | [College of Science and Mathematics > Department of Mathematics > Students > Placement Exams >](#)

ABOUT THE DEPARTMENT

DEGREES & PROGRAMS

STUDENT RESOURCES

> GRE - Mathematics Preparation Workshop

> Placement Exams

Calculus Placement

IMPORTANT LINKS

[Fresno State ALEKS PPL Portal](#)

[Bulldog Testing Center \(Instructions\)](#)

1. Log in to the [Fresno State ALEKS PPL portal](#) from the [Fresno State Mathematics Calculus Readiness Webpage](#) your Fresno State login.
2. Bookmark this portal for future logins.

FRESNO STATE | Discovery. Diversity. Distinction.

Campus Login Services

Username:
jmbishop

Password:

[Forgot password?](#)

LOGIN

2. Register

Use the code provided here at the [Fresno State Mathematics Calculus Readiness Webpage](#)

The code is updated each semester. For incoming students in Fall 2023, it is

YECVK-P94LU

ALEKS®

Add Class

Enter the 10-character class code of the class you would like to add or change to below. You should have received this from your instructor.

Class Code: - [?](#)

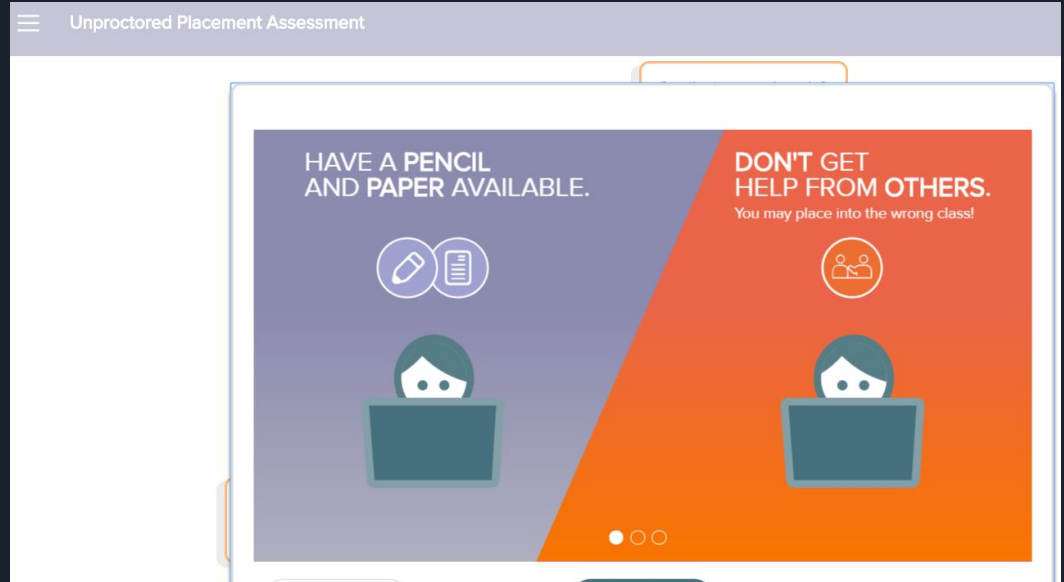
Initial Placement

3. Download the lockdown browser and set up the Monitor service with webcam.

4. Take the initial placement.

Set aside two hours and have pencil and paper ready.

Do not leave your seat.



Review

4. Spend time reviewing topics. At the start of each topic, take notes, then work on the exercises.

UP NEXT :
Knowledge Check

[START KNOWLEDGE CHECK](#)

Start by: Tomorrow 4:00 PM

WORK ON SOMETHING ELSE

Continue Module Progress [▶](#)

PLACEMENT ASSESSMENT [View Report](#)

Attempt: 2 of 5
Time Limit: 48 Hours

Module: Prep for Calculus
Expires: 06/11/2019

Timeline Learning Pie

47

- Real Numbers (27 Topics)
- Equations and Inequalities (24 Topics)
- Exponents and Polynomials (43 Topics)
- Lines and Systems (30 Topics)
- Functions and Graphs (39 Topics)
- Rational Expressions (30 Topics)
- Radical Expressions (26 Topics)

Their pie chart will fill as they learn new topics.

Topics Review

At the start of each topic, review the examples. Take notes on the Learning Page.

EXONENTS AND POLYNOMIALS
Degree and leading coefficient of a univariate polynomial

QUESTION

What are the [degree](#) and [leading coefficient](#) of the polynomial?

$$12v - v^4 + 6$$

EXPLANATION

We first rewrite this [polynomial](#) in [standard form](#).
We rearrange the [terms](#) so that the exponents on the variable decrease from left to right.

$$12v - v^4 + 6 = \underbrace{-v^4 + 12v + 6}_{\text{standard form}}$$

[More](#)

The [leading term](#) is the first term when the polynomial is in standard form.
So, for this polynomial, the leading term is $-v^4$.

- Degree**
The degree of a term is the exponent of its variable.
(When there is no variable, the degree is 0.)
The [degree of a polynomial](#) is the degree of its leading term.
For our polynomial, the leading term is $-v^4$. So, the degree of the polynomial is 4.

Problem Solving

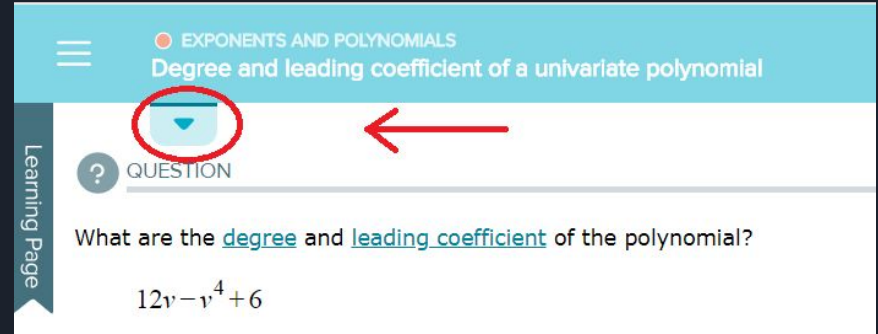
Do the problems carefully. If you answer several questions correctly in a row, the system gives you bonuses to skip questions.

The screenshot shows a math problem-solving interface. At the top, a blue header bar contains a hamburger menu icon, the text "RATIONAL EXPRESSIONS", and "Least common multiple of two monomials". On the right side of the header, it says "3 in a row" above a progress indicator consisting of four green bars. Below the header, a green speech bubble icon with the word "Correct" is displayed. The main content area contains the text "Find the least common multiple of these two expressions." followed by the expressions $6x^4y^3$ and $14x^7y^8v^5$. Below this, a text input field contains the answer $42x^7y^8v^5$. To the right of the input field is a toolbar with a square icon, a close button (x), a redo button (curved arrow), and a help button (?).

A student who gets three in a row gets treated as if they answered five correct questions.

Stuck?

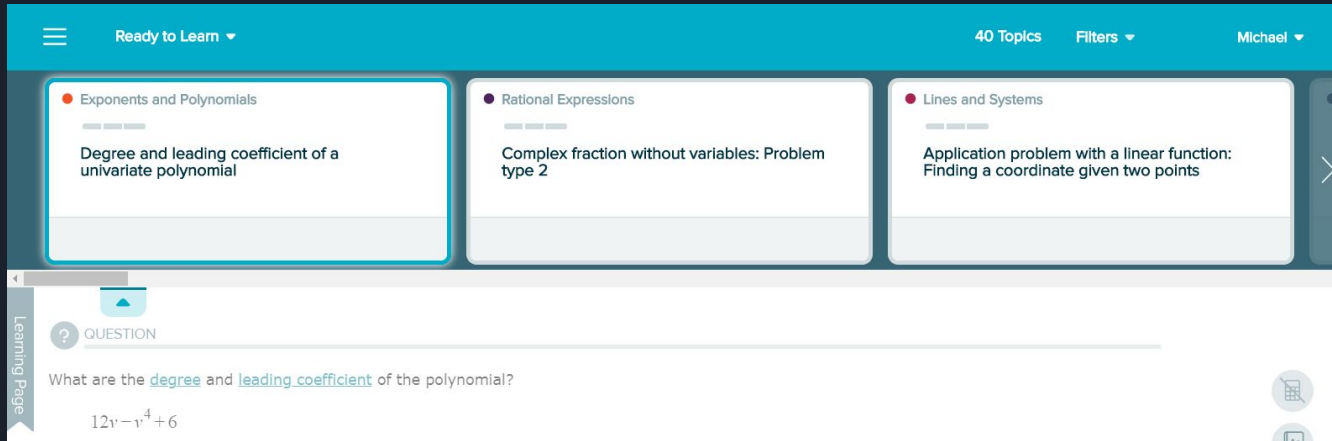
If you get stuck or frustrated with a set of topics, click the blue arrow above to change the topic area.



EXONENTS AND POLYNOMIALS
Degree and leading coefficient of a univariate polynomial

QUESTION

What are the degree and leading coefficient of the polynomial?

$$12v - v^4 + 6$$


Ready to Learn

40 Topics Filters Michael

- Exponents and Polynomials
Degree and leading coefficient of a univariate polynomial
- Rational Expressions
Complex fraction without variables: Problem type 2
- Lines and Systems
Application problem with a linear function: Finding a coordinate given two points

QUESTION

What are the degree and leading coefficient of the polynomial?

$$12v - v^4 + 6$$

Scroll right and choose another topic.



Placements

Each account has FIVE total placements, including the initial one.

Students may take another placement after five hours of study in the system and two days break from the previous placement.



Scores

COURSE	SCORE REQUIRED (best placement)
Math 75 Calculus	76 or higher
Math 75A Calculus, Year-long	66-75
Math 70 Calculus for Life Sciences	51 or higher (Life Sciences Major)
Math 6 Precalculus	40-65
Math 3 College Algebra/ Math 5 Trigonometry	0-39



Resources

Fresno State Mathematics Calculus Readiness Page:

<http://www.fresnostate.edu/csm/math/students/placement-exams/calc-readiness.html>

Fresno State ALEKS PPL portal:

https://secure.aleks.com/shiblogon/sso?sso_account=7ee766b

DISCOVERe at Fresno State:

<https://www.fresnostate.edu/president/discovere/>