

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front parallelogram is blue and the back one is a light green. They are both oriented diagonally, with their top-left corners pointing towards the top-left of the slide.

Mathematics Review & Calculus Placement Via ALEKS PPL

At California State University, Fresno


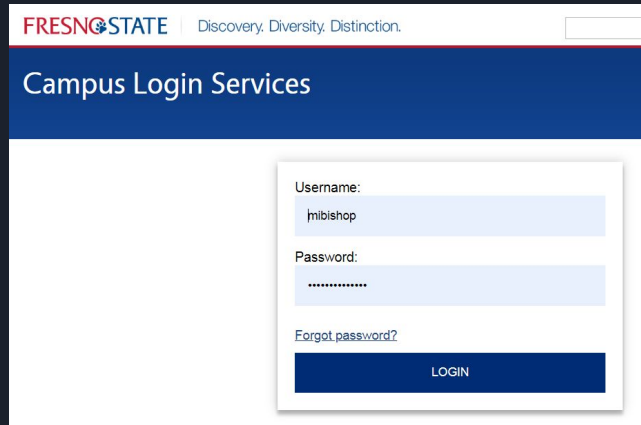


ALEKS PPL

- Designed to help put you in exactly the correct course in the calculus track (Math 3, 5, 6, 70, 75A, or 75).
- Review is tailored to you, working on topics you are ready for; skipping topics that you know as well or are not quite ready for.
- **Review directly improves your placement score by showing that you know the material!**
- Multiple assessments - No single high stakes placement.
- Practice in the system - No unexpected questions.

How do you start? Log -in!

1. Log in to the [Fresno State ALEKS PPL portal](#) from the [mathematics department webpage](#) portal with your Fresno State login. Save this portal as a favorite link.



With a commitment to the highest standards of teaching, the Department of Mathematics serves the University and the community by providing mathematics education to mathematics, science, engineering, and liberal studies majors, as well as general education mathematics courses for all majors.

In pursuit of its educational mission, the department offers the following degree programs:

- [Bachelor of Arts](#) in Mathematics
- Subject requirements for a [California Secondary Teaching Credential](#) in Mathematics
- [Bachelor of Science](#) in Mathematics
- [Master of Arts](#) in Mathematics
- [Master of Arts](#) in Mathematics with Teaching Option.

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Upcoming Events

- Central Valley Integration Bee - April 10
- Math Field Day - April 27
- Registration

Quick Links

- [Calculus Placement Information](#)
- [ALEKS PPL Portal](#)



2. Register

Enter the code given to you via email.

It is also available at:

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

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:

-

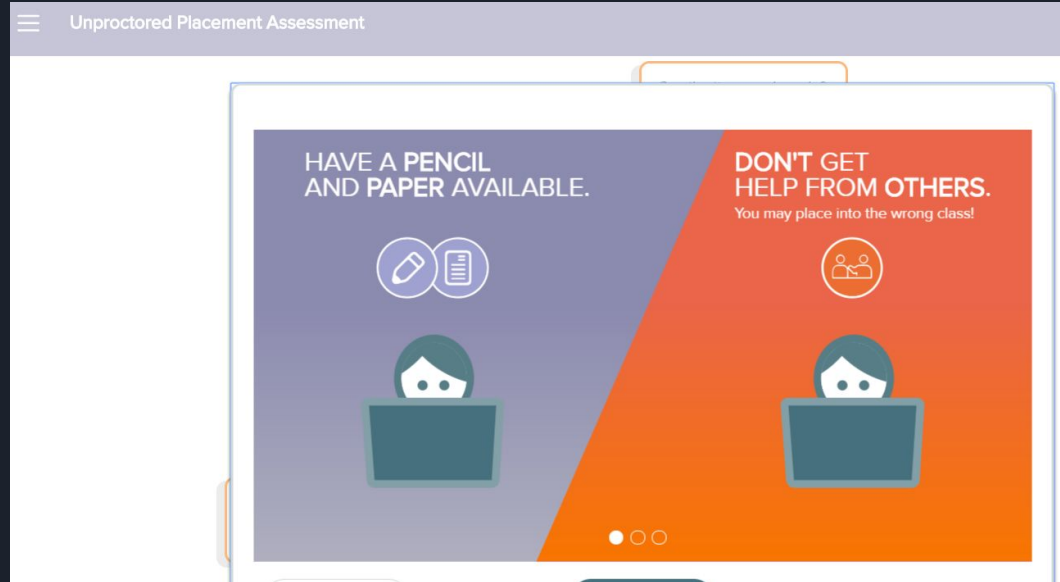


Initial Placement

3. Take the initial placement.

Set aside two hours and have pencil and paper ready.

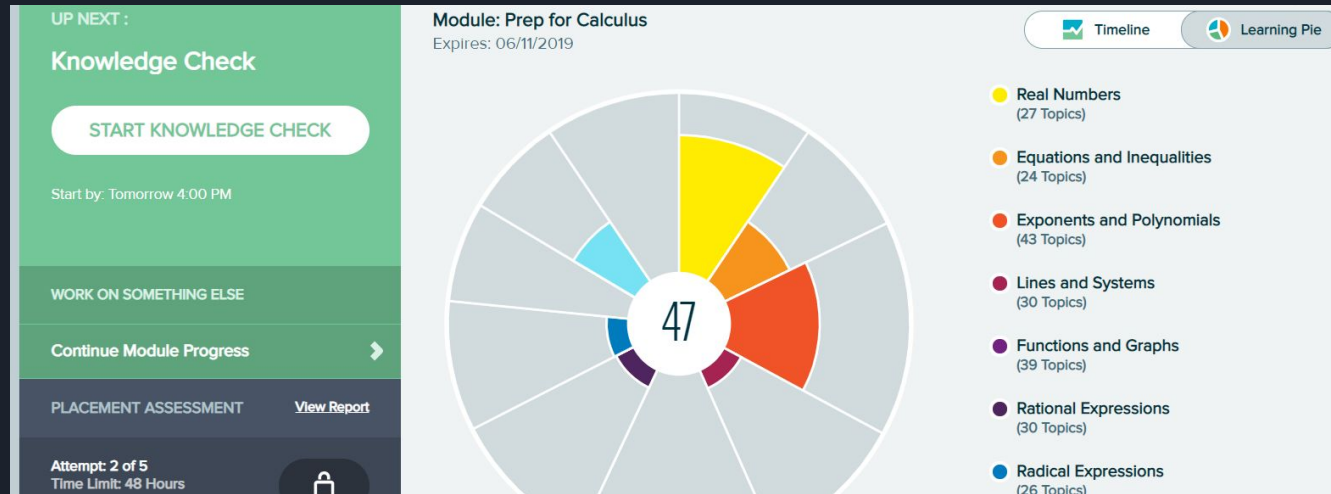
This lets the system know where you're at to tailor the review to you.



Take the placement seriously; this makes it easier to achieve a better placement by letting you skip topics.

Review


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




As you learn more, you will fill your pie.

Topics Review

At the start of each topics, review the examples. Take notes!


 EXPONENTS AND POLYNOMIALS
Degree and leading coefficient of a univariate polynomial

Learning Page

 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 get several correct in a row, you get bonuses which let you skip more questions!

The screenshot shows a math problem-solving interface. At the top, a blue header bar contains a menu icon, the text "RATIONAL EXPRESSIONS" with a red circle icon, the title "Least common multiple of two monomials", and a progress indicator showing "3 in a row" with three green bars. Below the header, a green speech bubble icon with the word "Correct" is displayed. The problem text reads: "Find the least common multiple of these two expressions." followed by the expressions $6x^4y^3$ and $14x^7y^8v^5$. Below the problem, there is a text input field containing the answer $42x^7y^8v^5$. To the right of the input field is a toolbar with a square icon, a multiplication sign (\times), a undo arrow, and a question mark ($?$).

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

Learning Page

QUESTION

What are the degree and leading coefficient of the polynomial?

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

A red circle highlights a blue arrow icon in the top navigation bar, and a red arrow points to it from the right.

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?

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

The first topic card is highlighted with a blue border.

Scroll right and choose another topic.



Proctored Placement

All five placements are proctored.

We will use your best score as placement, so if you score high enough on ANY placement, you can take the associated course.