



# Mathematics Review & Calculus Placement Via ALEKS PPL

At California State University, Fresno

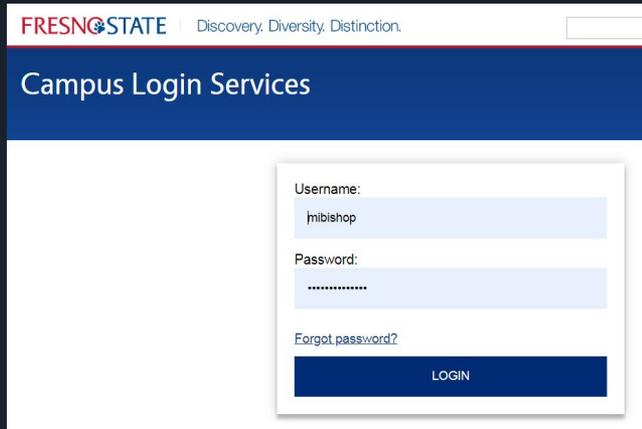


## ALEKS PPL

- 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

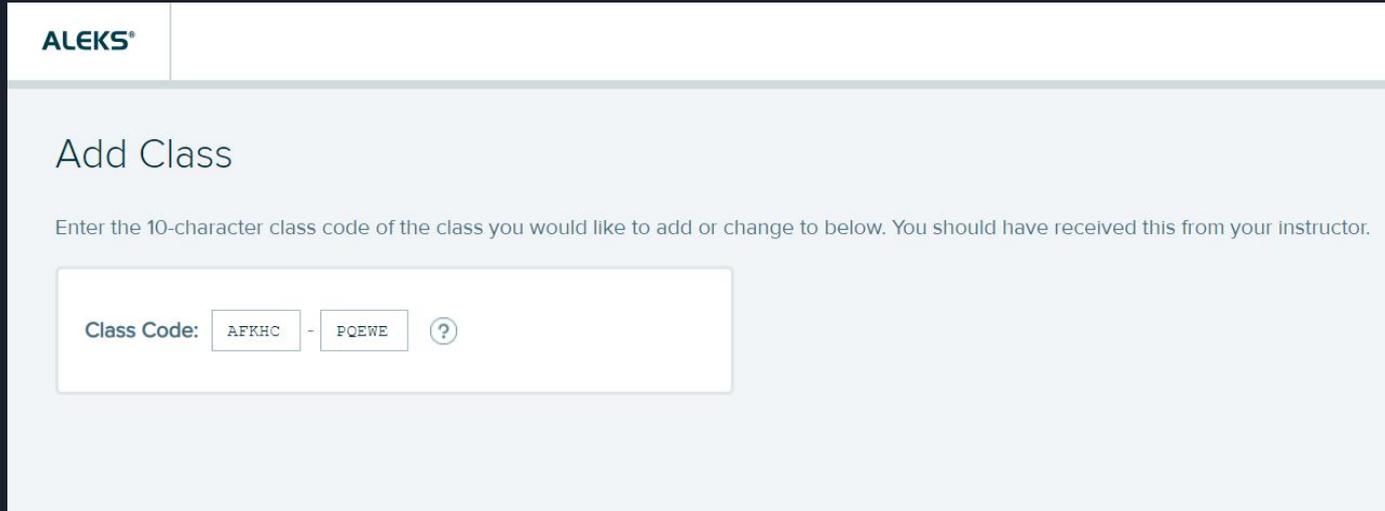
- [Calculus Placement Information](#)
- [ALEKS PPL Portal](#)

## 2. Register

Enter the code given to you via email. For Fall 2019,

For College of Science and Mathematics students, use AFKHC-PQEWE.

For Lyles College of Engineering students, use 3FK9A-Q4FNV.



The screenshot shows the ALEKS registration interface. At the top left is the ALEKS logo. Below it is the heading 'Add Class'. A text instruction reads: '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.' Below this instruction is a form field containing the text 'Class Code: AFKHC - PQEWE' followed by a question mark icon in a circle.

**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.

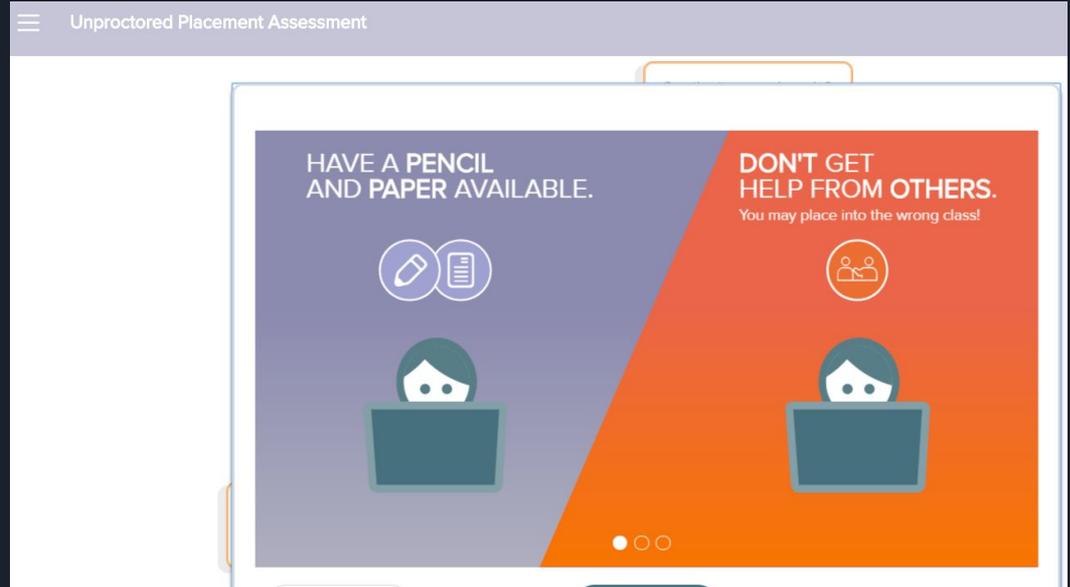
Class Code:  -  [?](#)

# 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.

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)

As you learn more, you will fill your pie.

# Topics Review

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

The screenshot shows a learning page with a teal header. The title is 'Degree and leading coefficient of a univariate polynomial'. Below the title is a 'QUESTION' section with the text: 'What are the [degree](#) and [leading coefficient](#) of the polynomial?' followed by the equation  $12v - v^4 + 6$ . Below that is an 'EXPLANATION' section. It starts with: 'We first rewrite this [polynomial](#) in [standard form](#). We rearrange the [terms](#) so that the exponents on the variable decrease from left to right.' This is followed by the equation  $12v - v^4 + 6 = \underbrace{-v^4 + 12v + 6}_{\text{standard form}}$  with a 'More' button to its right. The explanation continues: 'The [leading term](#) is the first term when the polynomial is in standard form. So, for this polynomial, the leading term is  $-v^4$ .' A bullet point follows: '• **Degree**'. The text then says: 'The degree of a term is the exponent of its variable. (When there is no variable, the degree is 0.)' and 'The [degree of a polynomial](#) is the degree of its leading term.' Finally, it concludes: 'For our polynomial, the leading term is  $-v^4$ . So, the degree of the polynomial is 4.'

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

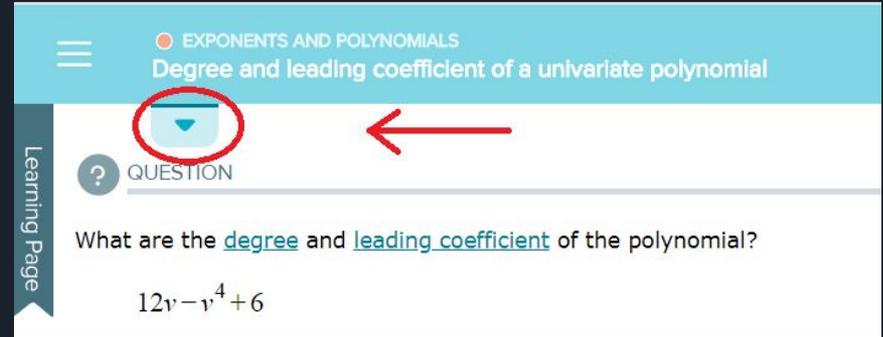
Do the problems carefully. If you get several correct in a row, you get bonuses which let you skip more questions!

The screenshot shows a math problem-solving interface. At the top, there is a blue header with a hamburger menu icon on the left, the text "RATIONAL EXPRESSIONS" and "Least common multiple of two monomials" in the center, and a progress indicator on the right showing "3 in a row" with three 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 monomials  $6x^4y^3$  and  $14x^7y^8v^5$ . Below this, there is a text input field containing the expression  $42x^7y^8v^5$ . 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?

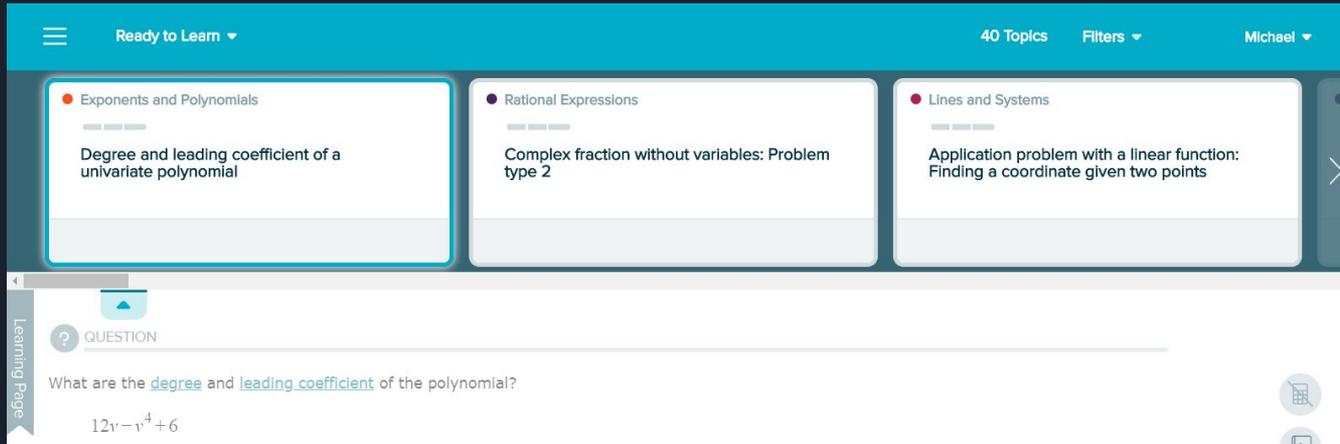
If you get stuck or frustrated with a set of topics, click the blue arrow above to change the topic area.



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.



## Proctored Placement

When you are ready, you can sign up for a proctored placement at the Bulldog Testing Center.

In addition, we will be offering proctored placements, May 4th and May 11th. Details for signing up will be sent to you by email.



Questions?