

ALEKS HW

As we work through the course, I will be posting HW for the week on ALEKS, which means some of the homework will be posted before we cover the material in class. ALEKS will lump all the sections for the week together into one HW assignment. ALEKS will tell you which topic you are working on for each question, but it won't tell you which section that topic is from. Because of this, you may complete the homework for a topic we covered in class and move to questions from a topic we have not yet covered, without knowing that you've moved onto a topic we haven't yet covered.

To help avoid confusion, I will post the topics from each section on the course website, similar to the following screenshot.

- Homework and Exams

Upcoming homework due.

- Due Monday, September 7th at 11:59pm
 - Section 4.1
 - Topic: Converting between degrees and radian measure: Problem type 1
 - Topic: Converting between degree and radian measure: Problem type 2
 - Topic: Sketching an angle in standard position
 - Topic: Coterminal angles
 - Topic: Arc length and central angle measure
 - Section 4.2
 - Topic: Finding coordinates on the unit circle for special angles
 - Topic: Trigonometric functions and special angles; Problem type 1
 - Topic: Finding trigonometric ratios from a point on the unit circle
 - Topic: Trigonometric functions and special angles; Problem type 2
 - Topic: Trigonometric functions and special angles; Problem type 3
 - Topic: Evaluating expressions involving sine and cosine
 - Topic: Even and odd properties of trigonometric functions
 - Section 4.3
 - Topic: Using a calculator to approximate sine, cosine, and tangent values
 - Topic: Using a calculator to approximate cosecant, secant, and cotangent values
 - Topic: Sine, cosine, and tangent ratios: Numbers of side lengths
 - Topic: Using the Pythagorean Theorem to find a trigonometric ratio
 - Topic: Finding trigonometric ratios given a right triangle
 - Topic: Using a trigonometric ratio to find a side length in a right triangle
 - Topic: Using cofunction identities

How will this help? When you are working on the HW in ALEKS, you will see the topic name in the blue bar above the question, similar to the following two screenshots.

TRIGONOMETRIC FUNCTIONS
Converting between degree and radian measure: Problem type 1 ← Topic

Spanish

Convert -405° to [radian](#) measure in terms of π .

TRIGONOMETRIC FUNCTIONS
Converting between degree and radian measure: Problem type 2 ← Topic

Spanish

Convert -21° to [radian](#) measure.

Round your answer to the nearest hundredth.

If you look at the two topic names in the two above screenshots and look for those names in the topic list in the screenshot from the course website, you will see that each of these topics comes from Section 4.1. As you work through the questions, it will be worth noting which topic you're working on and which section that topic is in, so that you know if you're working on a topic that we haven't yet gotten to.

Note that if we start a section in class but don't finish it, then it might be a bit harder to tell if the question is something you should already know how to do or if it's a question from a topic we haven't yet gotten to. In these cases, you are welcome to email me (it will be helpful if you include a screenshot of the question and topic name, similar to my screenshots above) or wait until after the next class period when we finish covering that topic.

It is also worth noting that in ALEKS, you can be presented with questions in one of two ways – easiest to hardest or in order of topics. I recommend you work on the HW questions in order of topics. To make sure this is how ALEKS is presenting questions to you, click on the down arrow below the topic name, as noted in the following screenshot.

TRIGONOMETRIC FUNCTIONS
Converting between degree and radian measure: Problem type 1

Spanish

Convert -405° to [radian](#) measure in terms of π .

Next click on the "Filters" button and make sure "Pie Slice" is selected, as noted in the following screenshot.

The screenshot shows a course interface with a blue header. On the left, there are navigation menus for 'Section 4.1 / Section 4.2 / Section 4.3' and '18 Topics'. On the right, there is a 'Filters' button and a user name 'Douglas'. Below the header, there are two topic cards for 'Trigonometric Functions'. The first card is titled 'Converting between degree and radian measure: Problem type 1' and has tags 'Goal Topic, Video'. The second card is titled 'Converting between degree and radian measure: Problem type 2' and has tags 'Goal Topic, Locked, Video'. A 'Filters' menu is open, showing a search bar, a 'Sort by' section with 'Easiest' and 'Pie Slice' options (the latter is circled in red), and a 'View by' section with 'Ready to Learn' and 'Review' options. Below the menu, there is a 'TAGS' section with a list of tags and their counts: 'Any Topic (18)' (checked), 'Needs More Practice (0)', 'Goal Topic (18)', 'Unlocked (4)', and 'Video (15)'. At the bottom, there is a math problem: 'Convert -405° to radian measure in terms of π .' with an input field for 'radians' and a calculator interface.

When you close the “Filters,” you will see a list of the topics, as noted in the following screenshot. That list should be in the same order as the list of topics on the course website.

The screenshot shows the course interface with the 'Filters' menu closed. The header shows 'Section 4.1 / Section 4.2 / Section 4.3', '18 Topics', 'Filters', and 'Douglas'. Below the header, there are three topic cards for 'Trigonometric Functions'. The first card is titled 'Converting between degree and radian measure: Problem type 1' and has tags 'Goal Topic, Video'. The second card is titled 'Converting between degree and radian measure: Problem type 2' and has tags 'Goal Topic, Locked, Video'. The third card is titled 'Sketching an angle in standard position' and has tags 'Goal Topic, Video'. The first two cards have their titles highlighted in yellow and the word 'Topic' written in red below them. The third card has its title highlighted in yellow and the word 'Topic' written in red below it.