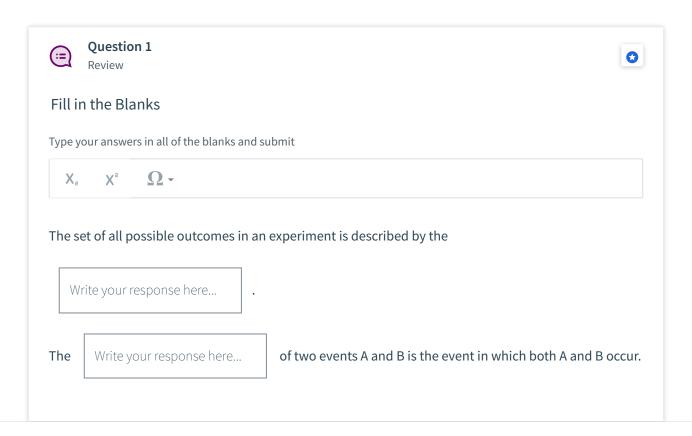
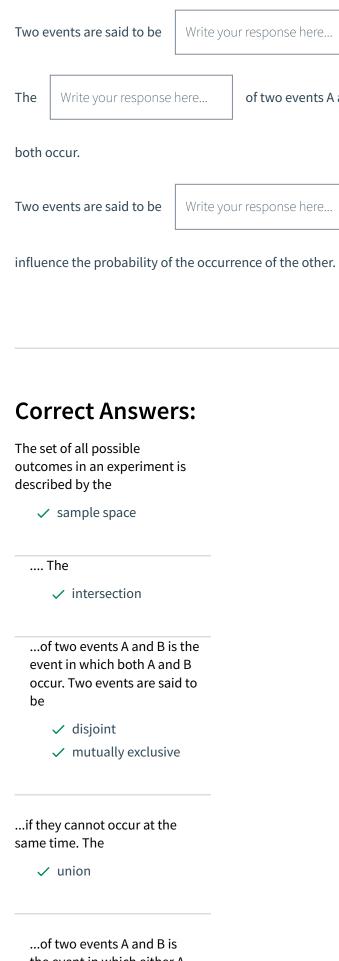


## Problem Set #2 - Probability

The following problems will cover material discussed in Week 2. You must answer each question correctly to earn credit on the question. You have three attempts per question.

If not specified in a particular question, please round your numerical answers to three decimal places.





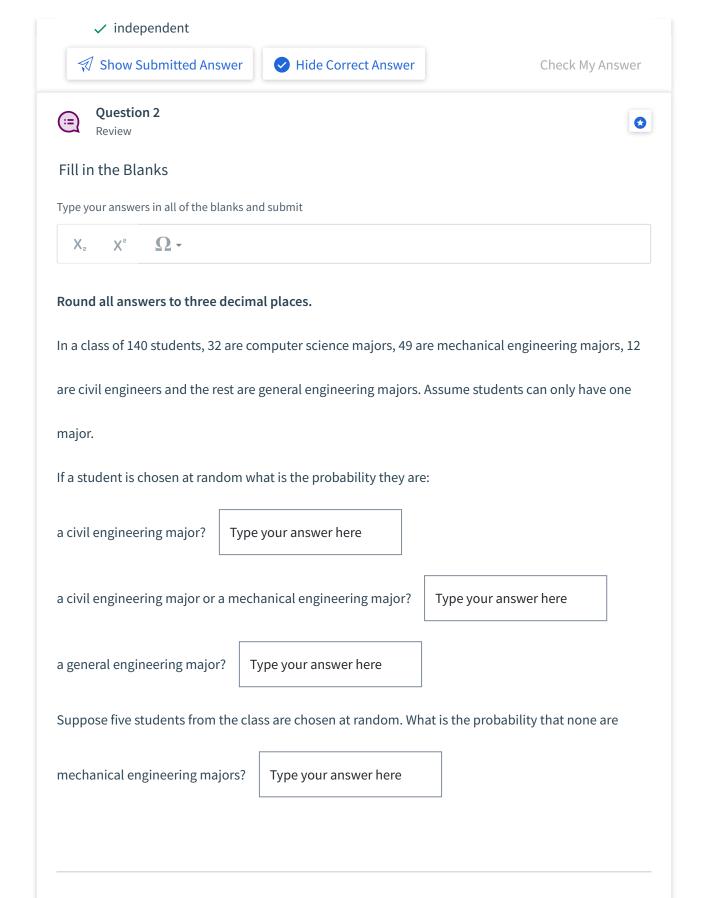
response here... if they cannot occur at the same time.

of two events A and B is the event in which either A or B or

response here... if the occurrence of one does not

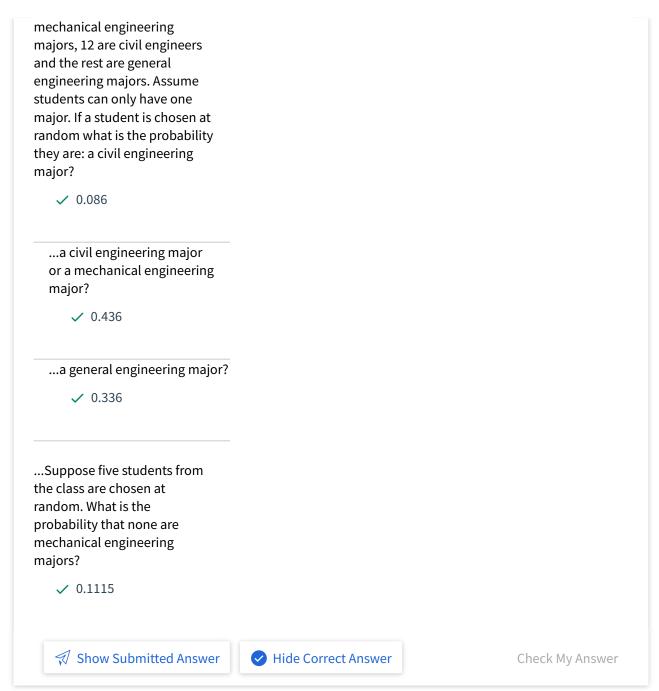
nce of the other.

...of two events A and B is the event in which either A or B or both occur. Two events are said to be



## **Correct Answers:**

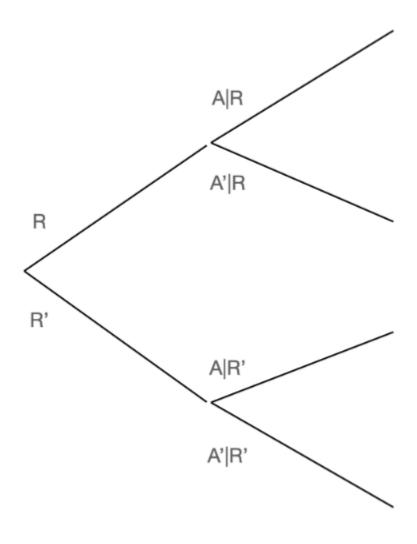
\*\*Round all answers to three decimal places.\*\* In a class of 140 students, 32 are computer science majors, 49 are

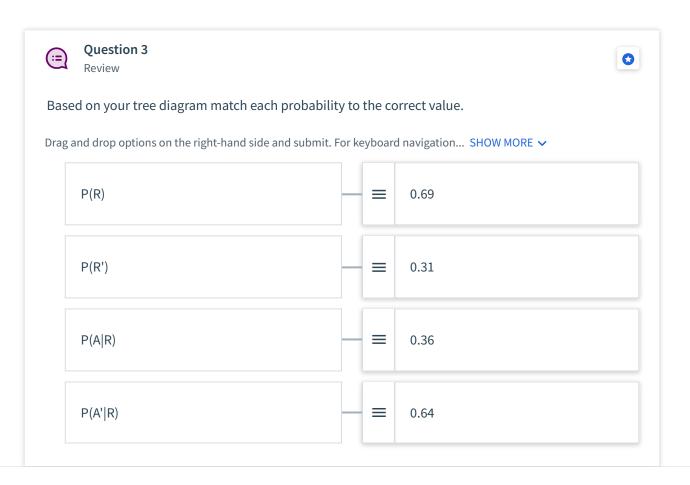


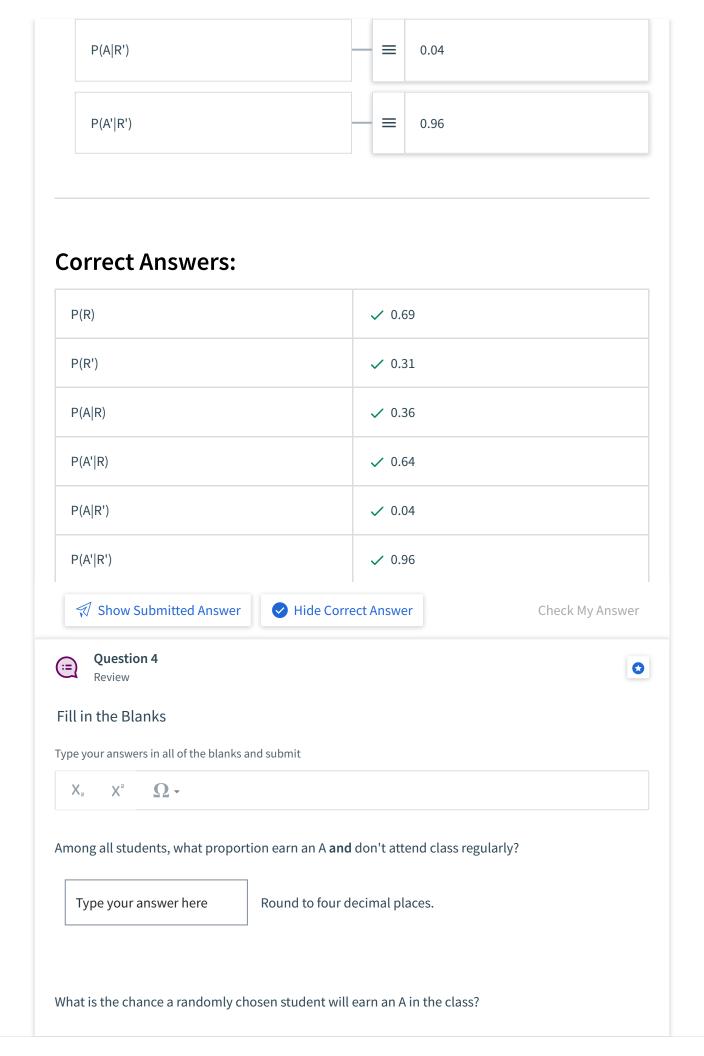
Use the following information for the next two questions.

A professor has noticed that students that attend class regularly, miss no more than two classes per term, generally get better grades. For the class, the overall percent of students who attend regularly is 69%. Of those who come to class on a regular basis, 36% receive A's. Of those who don't attend regularly, only 4% get A's.

Draw a tree diagram like the one in the image, where R = "attends class regularly", R' = "does not attend class regularly", A = "earned an A", and A' = "did not earn an A".







Type your answer here

Hint: Use the law of total probability. Round to four decimal places.

Given a student earned an A, what is the chance they attend class regularly?

Type your answer here

*Hint:* P(R|A) Round to four decimal places.

## **Correct Answers:**

Among all students, what proportion earn an A \*\*and\*\* don't attend class regularly?

**V** 0.012

...Round to four decimal places. What is the chance a randomly chosen student will earn an A in the class?

**v** 0.261

...\*Hint: Use the law of total probability.\* Round to four decimal places. Given a student earned an A, what is the chance they attend class regularly?

**✓** 0.952



**∜** Show Submitted Answer



Check My Answer

