



Here's how to get started:

Create your Student Account:

<https://www.actuarialuniversity.com/student/register>

Once you have completed your registration you will be redirected to our Actuarial University portal.

Be sure to select ACTEX Learning as the Vendor each time you sign in.

Register your access key: (One time only)

559c989f-71d4-43e8-8f90-aaa9e565534c

EXAM

Academic GOAL v2.0 - FM

SCHOOL

Bob Jones University

PROFESSOR

Melissa Gardenghi

You will be walked through a simple payment process.

Each time you sign into www.ActuarialUniversity.com
Scroll down and click on **Academic GOAL** in **My Products**.

! Please always use Chrome as
your browser for Academic GOAL **!**

Stuck? Here's how to get help:

Simply e-mail us at support@actuariallearning.com
Our Technical Support team will be happy to help!

What is GOAL?

Guided Online Actuarial Learning (GOAL)

- Actuarial exam preparation for independent study
- 10,000 exam style questions with detailed solutions
- 3 learning modes: practice, quiz & simulated exam
- 3 difficulty modes: core, advanced, mastery
- GOAL Score - a predictive & diagnostic tool
- FREE Instructional Videos!

What is Academic GOAL?

A professor-led version of GOAL with professor created assignments, quizzes, and tests

Communicate directly with your professor through the GOAL interface.

Helpful resources, such as instructional videos, answers to common questions, and alternative solutions.

A tool for independent study - practice and quiz modes remain available after the semester to help prepare students for upcoming SOA / CAS exams.

Simulated Exams and GOAL Score are only available with a full GOAL license.



QUESTION 14 OF 62 Question # Get [Icons] < Prev Next > X

Question Difficulty: Mastery 0

At time $t = 0$ year, Donald puts \$1,000 into a fund crediting interest at a nominal rate of i compounded semiannually.

At time $t = 2$ years, Lewis puts \$1,000 into a different fund crediting interest at a force $\delta_t = 1/(5 + t)$ for all t .

At time $t = 16$ years, the amounts in each fund will be equal.

Calculate i .

Possible Answers

✖ 6.9% ✔ 7.0% C 7.1% B 7.2% A 7.3%

Help Me Start

Equate the expressions for the AVs at $t = 16$. Then solve for $i^{(2)}$:

Solution

Equate the expressions for for the AVs at $t = 16$ and calculate $i^{(2)}$:

$(1 + i^{(2)}/2)^{32} = 3$

$(1 + i^{(2)}/2) = 3^{(1/32)} = 1.03493$

$i^{(2)}/2 = 0.03493$

$i^{(2)} = 7.0\%$

Common Questions & Errors

Student Question 1: After solving this problem I got .069855. Are we expected to round to .07?

Answer: The provided answer choices are all rounded to 1 decimal place. So the answer 6.9855% should be rounded to 7.0% to be correct to 1 decimal place.

Rate this problem Excellent Needs Improvement Inadequate

Quickly access the Hub for additional learning

Flag problems for review, record notes, and email your professor.

View difficulty level.

Helpful strategies to get you started.

Full solutions, with detailed explanations to deepen your understanding.

Commonly encountered errors.

Rate a problem or give feedback

Practice. Quiz. Test. PASS!

- Review the results of your progress by topic
- Quickly identify topics that need improvement
- Test your strengths & weaknesses before exam day

Review Results

Time Value of Money

	Flagged	Skipped	Incorrect	Correct
Accumulation Functions and Effective Rates	0	0	2	14
Simple and Compound Interest	0	<input type="checkbox"/> 1	<input type="checkbox"/> 1	4
Force of Interest: Calculating PV and AV	2	<input type="checkbox"/> 1	11	1