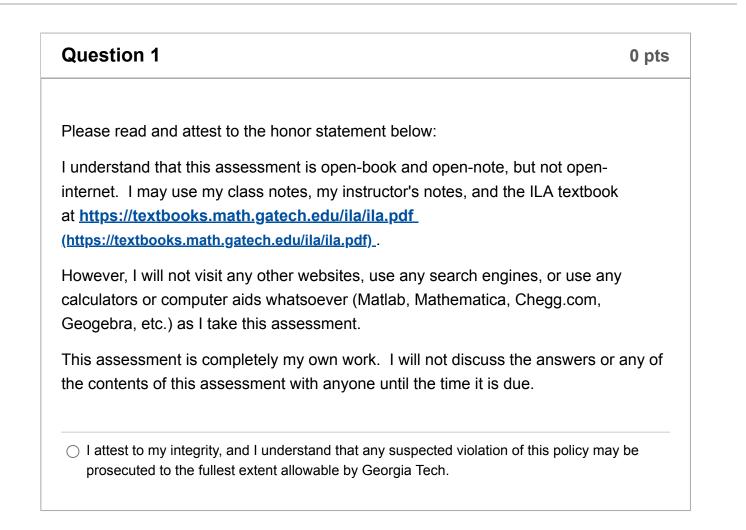
Quiz 9

(1) This is a preview of the published version of the quiz

Started: Nov 10 at 7:07am

Quiz Instructions

Once you open this quiz, you will have 25 minutes to submit it. You will have only **one** submission attempt. The quiz must be **submitted** by 7:59 PM (Atlanta time) on Friday, Oct 30. There are 5 questions after the honor code pledge.



Question 2

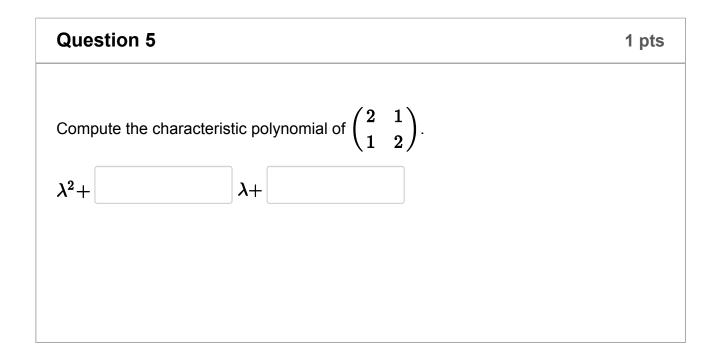
1 pts

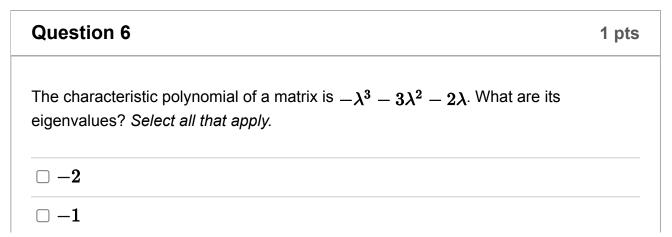
The vector
$$\begin{pmatrix} 3\\3\\6 \end{pmatrix}$$
 is an eigenvector for the matrix $\begin{pmatrix} 1 & -3 & 3\\3 & -5 & 3\\6 & -6 & 4 \end{pmatrix}$. What is the corresponding eigenvalue?
[a]

Question 3	1 pts		
Let $T: \mathbb{R}^2 \longrightarrow \mathbb{R}^2$ be the linear transformation given by reflection about the line $y = 3x$. What are the eigenvalues of the standard matrix for T ? Select all that apply.			
□ −2			
□ −1			
□ 0			
□ 2			

Question 4	1 pts
Let $T: \mathbb{R}^2 \longrightarrow \mathbb{R}^2$ be the linear transformation given by projection to the y -a Which of the following are eigenvectors of the standard matrix for T ? Select a apply.	







11/10/2020

□ 0	
□ 2	

Not saved	Submit Quiz