Instructor: Tatsunari Watanabe TA: Carlos Salinas	Name:	_•
MA 26	26500-215 Quiz 10	
	July 25, 2016	
1. Let $T: \mathbb{R}^3 \to \mathbb{R}^3$ be a linear map	ap that sends	
	T(1,0,0) = (3,2,4) T(0,1,0) = (2,0,2) T(0,0,1) = (4,2,3).	
(a) (4 points) Find the value of	of $T(2, 1, -1)$.	
(b) (6 points) Find the matrix on \mathbb{R}^3 .	\mathbf{x} representation of T with respect to the standard base	sis

(c) (10 points) Using the matrix representation of T, find the characteristic polynomial.

You do not have to simplify it.