Name:

SM275 · Mathematical Methods for Economics

## Quiz 7 - 18 October 2019

**Instructions.** You have 15 minutes to complete this quiz. You may <u>not</u> use your calculator. You may <u>not</u> use any other materials (e.g., notes, homework, books).

Show all your work. To receive full credit, your solutions must be completely correct, sufficiently justified, and easy to follow.

Problem	Weight	Score				
1	1					
2	1					
3	1					
4	1					
5	1					
Total		/ 50				

For Problems 1-4, let

	2	-3	1]		1	0	0]	ſ	1	2	3]	
<i>A</i> =				<i>B</i> =	1 -10	4	0	$C = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	2	4	6	
	1	5	-2		3	-7	5	L	3	6	9	

**Problem 1.** Find |A|.

**Problem 2.** Find |B|.

**Problem 3.** Find |C|.

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**Problem 4.** Is *C* invertible? Briefly explain.

Problem 5. Use Cramer's Rule to solve the system

x + 2y = 32x + 7y = 5