UNIVERSITY OF MANITOBA Quiz 6A

COURSE: MATH 1210 DATE & TIME: Mar 22/23/24, 24 Minutes

- [12] 1. Use either Gaussian or Gauss-Jordan elimination to find all real values for a in which the following system has
 - (a) infinitely many solutions,
 - (b) exactly 1 solution,
 - (c) no solutions.

4x	+	y	+	(2a - 10)z	=	$2a^2 - 4a - 26$
3x	+	y	+	(2a - 10)z	=	$2a^2 - 4a - 27$
3x	+	y	+	(3a-15)z	=	$3a^2 - 6a - 42$

(Do not calculate the determinant, and do not use Cramer's rule.)