UNIVERSITY OF MANITOBA
Quiz 8A

COURSE: MATH 1210 DURATION: IN LABS
DATE & TIME: Apr 12/13/14, 20 Minutes EXAMINER: Borgersen/Kristel

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1. Let t be an arbitrary real number, and let A be the matrix

$$A = \begin{pmatrix} \cos(t) & 0 & \sin(t) \\ 0 & 1210 & 0 \\ -\sin(t) & 0 & \cos(t) \end{pmatrix}.$$

(Read all three parts of this question before you get started.)

[4] (a) Show that the matrix A is invertible.

[3] (b) Find the adjoint of A. No work needs to be shown for this step.

[2] (c) Use the adjoint method to find the inverse of A.