

MATH 54 SUMMER 2017, QUIZ 7

Compute the following quantities or briefly explain why they are undefined.

$$A = \begin{bmatrix} 1 & -3 \\ -2 & 6 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} \quad C = \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$$

(a) AB

(b) BA

(c) A^2

(d) B^2

(e) $A + B$

(f) $3A - 2C$