

Assignment 3

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Abstract—This document solves determinant of a matrix using properties of determinants

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1 QUESTION 16 (II)

By using properties of determinants, show that:

$$\begin{vmatrix} 1 & 1 & 1 \\ a & b & c \\ a^3 & b^3 & c^3 \end{vmatrix} = (a-b)(b-c)(c-a)(a+b+c) \quad (1.0.1)$$

2 CONSTRUCTION

3 SOLUTION