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sandipan_dey >

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■ Calculator

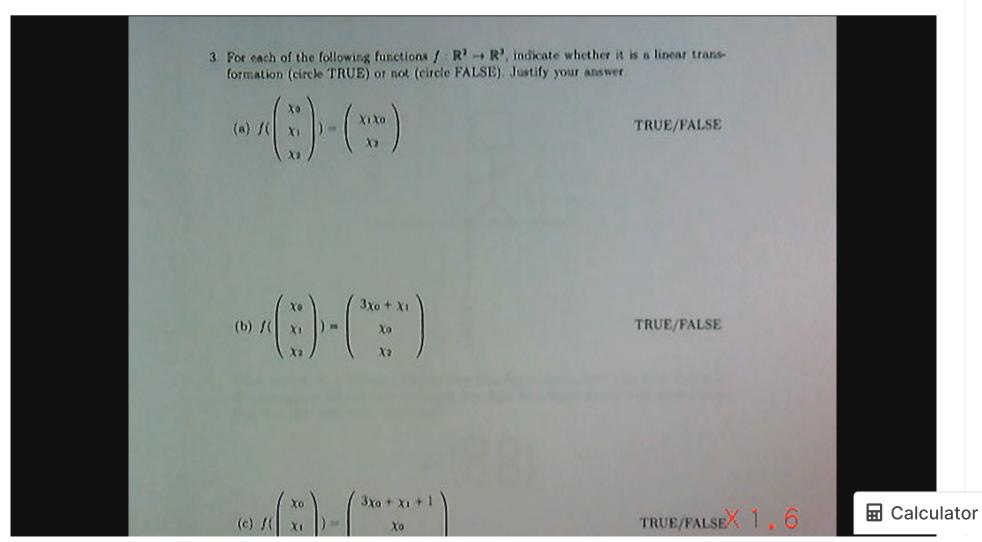
 For each of the following functions, indicate whether it is a linear transformation (circle TRUE) or not (circle FALSE). Justify your answer.

(a)
$$f\begin{pmatrix} \chi_0 \\ \chi_1 \\ \chi_2 \end{pmatrix} = \begin{pmatrix} \chi_1 \chi_0 \\ \chi_2 \end{pmatrix}$$
 TRUE/FALSE

(b)
$$f\begin{pmatrix} \chi_0 \\ \chi_1 \\ \chi_2 \end{pmatrix} = \begin{pmatrix} 3\chi_0 + \chi_1 \\ \chi_0 \\ \chi_2 \end{pmatrix}$$
 TRUE/FALSE

(c)
$$f\begin{pmatrix} \chi_0 \\ \chi_1 \\ \chi_2 \end{pmatrix} = \begin{pmatrix} 3\chi_0 + \chi_1 + 1 \\ \chi_0 \\ \chi_2 \end{pmatrix}$$
 TRUE/FALSE

Answer Video



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