

THE STATE EDUCATION DEPARTMENT / THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

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If y_1, y_2, \dots, y_n
is a basis for V ,
then y_1, y_2, \dots, y_n
is a basis for V .

Let R be a ring.
Let S be a subring of R .
Let ϕ be a homomorphism from R to R .
Then $\phi(S)$ is a subring of R .

If ϕ is

