

Ex. 2. Find the rank of the matrix

$$A = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 2 & 3 & 4 & 5 \\ 3 & 4 & 5 & 6 \\ 4 & 5 & 6 & 7 \end{bmatrix}$$

• Canonical form of quadratic form is a quadratic form with some of the variables equal to zero and some equal to ± 1 . This is called the canonical form of a quadratic form.

Ex. 3. Find the canonical form of the quadratic form $x^2 + y^2 + z^2 + w^2$.

Sol. The given quadratic form is $x^2 + y^2 + z^2 + w^2$. The matrix of the quadratic form is $A = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$. The eigenvalues of A are $1, 1, 1, 1$. The corresponding eigenvectors are $(1, 0, 0, 0), (0, 1, 0, 0), (0, 0, 1, 0), (0, 0, 0, 1)$. The canonical form of the quadratic form is $x^2 + y^2 + z^2 + w^2$.

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Excerpt from Interest and Life Contingencies Notes and Paper When the student comes to Section B Of Part I he will be tempted to learn formulae and if he falls into this temptation or if he contents himself with playing about with algebraic expressions he will never get at the real meaning Of the subject The best method is to read the algebraic treatment and then use the methods to work out arithmetical results and learn how to use the interest tables at the end of the Text Book Unless and until he can turn everything quickly and easily into an arithmetical result he cannot know the subject it is insufficient to reach the end of the algebra and say and then we put in the values for j and W and get the required arithmetical result it is only by suffering the arithmetic that he will appreciate the uselessness of any other method of study Perhaps it may be forgiven to us if we add that the more mathematical the student the greater is his difficulty apparently in facing the necessary arithmetical drudgery We may now turn to Part II and for the sake of students who have to study the subject without a tutor or wish to start reading in advance Of their classes we give in the next section an outline Of reading which indicates the parts Of the Text Book part II specially requiring attention It must be remarked that when the text book was prepared the examination syllabus was materially different from what it now is as students were not examined in the Calculus or its application till they came to the final examination and a text book had to be available in which the Calculus could be avoided Nowadays the easy line Of approach to the subject through the Calculus is available in the first instance and the notes may help to show how this line of approach can be followed most usefully A note on Select Tables is added and we are glad to be able to reprint in abstract Dr Sprague s paper on the Use of Select Mortality Tables We thank him and the Institute Of Actuaries for kind permission to reprint About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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