
Exercise 1 Find the determinant of A by first adding all other rows to the first row.

$$A = \begin{bmatrix} x-1 & 2 & 3 \\ 2 & -3 & x-2 \\ -2 & x & -2 \end{bmatrix}$$

$$\det(A) = \dots \dots$$

Source

[Nicholson] W. Keith Nicholson, *Linear Algebra with Applications*, Lyryx 2021, Open Edition, Exercises 3.1.14 (a).