

x	$-\infty$	1	$+\infty$
Var.	$+\infty$		$+\infty$
σ		$\sqrt{2}$	

The diagram illustrates a mapping between the variable x and the variance Var. and standard deviation σ . The x row shows values $-\infty$, 1 , and $+\infty$. The Var. row shows $+\infty$ at the first and third positions. The σ row shows $\sqrt{2}$ at the second position. Arrows indicate that the first $+\infty$ in the Var. row maps to $\sqrt{2}$ in the σ row, and $\sqrt{2}$ in the σ row maps to the second $+\infty$ in the Var. row.