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in mathematics a solution set is the set of values that satisfy a given set of equations or inequalities for example for a set of polynomials over a ring the solution set is the subset of on which the polynomials all vanish evaluate to 0 formally

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this vector equation is called the parametric vector form of the solution set since x_3 and x_4 are allowed to be anything this says that the solution set is the set of all linear combinations of $\begin{pmatrix} 8 \\ 4 \\ 1 \\ 0 \end{pmatrix}$ and $\begin{pmatrix} 7 \\ 3 \\ 0 \\ 1 \end{pmatrix}$ in other words the solution set is $\text{span} \left\{ \begin{pmatrix} 8 \\ 4 \\ 1 \\ 0 \end{pmatrix}, \begin{pmatrix} 7 \\ 3 \\ 0 \\ 1 \end{pmatrix} \right\}$

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example 1 show that each of the following numbers are solutions to the given equation or inequality $x^3 + x^3$ in $x^2 + 9 = 0$ $x^2 + 9 = 0$ $y = 8$ $y = 8$ in $3y = 1$ $4y = 5$ $3y = 1$ $4y = 5$ $z = 1$ $z = 1$ in $2z = 5$ $4z = 2$ $z = 5$ $4z = 2$ $z = 5$ $4z = 2$

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the preferred way to write a solution set is with set notation $s = \left\{ \begin{pmatrix} x \\ 1 \\ x + 2 \\ x + 3 \\ 4 \end{pmatrix} \mid \begin{pmatrix} 1 & 1 & 0 & 0 \end{pmatrix} \begin{pmatrix} x \\ 1 \\ x + 2 \\ x + 3 \\ 4 \end{pmatrix} = \begin{pmatrix} \mu_1 \\ \mu_2 \end{pmatrix} \right\}$ in \mathbb{R}^5

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by the end of this section you will be able to determine whether an ordered pair is a solution of a system of equations solve a system of linear equations by graphing determine the number of solutions of linear system solve applications of systems of equations by graphing

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the solution set to any $ax = b$ where b does have a solution is essentially equal to a shifted version of the null set or the null space this right here is the null space that right there is the null space for any real number $x = 2$ any scale or multiple of $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$ is the null

space

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7 3 systems of linear equations with three variables Oct 15 2022

a solution set is an ordered triple $x y z$ that represents the intersection of three planes in space see example [pageindex 1](#) a system of three equations in three variables can be solved by using a series of steps that forces a variable to be eliminated

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solution set definition the roots or values satisfying a given equation or inequality or a set of simultaneous equations or inequalities

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