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The linear system has augmented matrix $[A : c]$. If you do the row operations which take A to RREF, the number of solutions will depend on what happens to c . If the result has a 0 in the 4th entry, there will be 1 solution. If it has a nonzero number in the 4th entry there will be 0 solutions.

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First, change to by multiplying both sides by negative 1. Next, multiply the first equation by two on both sides to get a common term in both

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