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Consider the system:  $a \cdot x_1 + b \cdot x_2 = u$   $c \cdot x_1 + d \cdot x_2 = v$  If  $ad \neq bc$  , 0 then we can solve for  $x_1$  and  $x_2$  explicitly as  $x_1 = du \neq bv$   $ad \neq bc$   $x_2 = av \neq cu$  .  $ad \neq bc$  Thus there’s a unique solution for all  $(u, v)$  and in partucular when  $(u, v) = (0, 0)$ . c (c) Assume WOLOG that  $a \neq 0$ . Then  $ad \neq bc = 0 \neq d = cb$  a .

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If  $k = 7$  then the system has infinitely many solutions. c. If  $k = 7$  then we can choose  $z = t$  freely and obtain the solutions $(x, y, z) = (1 - t, 7 + 2t, t)$ . $x = 3z$   $y + 2z = 1$ .1.26 The system reduces to $(k - 2)z = 1 - k$ ?2This system has a unique solution if  $k - 2 \neq 0$ , that is, if  $k \neq 2$ .

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In elementary algebra, the quadratic formula is a formula that provides the solution(s) to a quadratic equation. There are other ways of solving a quadratic equation instead of using the quadratic formula, such as factoring (direct factoring, grouping, AC method), completing the square, graphing and others.

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Solve the given system ??or show that no solution exists:  $x + 2y = 1$   $3x + 2y + 4z = 7$  ?? $x + y + 2z = 16$ . Say you have  $k$  linear algebraic equations in  $n$  variables; in matrix form we write  $AX = Y$ . Give a proof or counterexample for each of the following. a) If  $n = k$  there is always at most one solution.

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Answer: . (3)Consider the following system of equations:  $8x + y + z = 2$   $x + 3y + 3z = 0$   $x + 3y + 6z = 3$  () (a)Use Gaussian elimination to put the augmented coefficient matrix into row echelon form. The result will be  $\begin{bmatrix} 2 & 4 & 1 & 1 & 1 & a \\ 0 & 1 & 1 & b & 0 & 1 \\ c & 3 & 5 & a & b & c \end{bmatrix}$  where  $a =$  ,  $b =$  , and  $c =$  .