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The solution is  $(x_1, x_2) = (-8, 3)$ , or simply  $(-8, 3)$ . 2.  $12 \ 12 \ 24 \ 4 \ 57 \ 11 \ xx \ xx \ ++ \ - = 24 \ 4 \ 57 \ 11 \ -$  Scale R1 by 1/2 and obtain:  $12 \ 12 \ 22 \ 57 \ 11 \ xx \ xx \ ++ \ - = 12 \ 2 \ 57 \ 11 \ -$  Replace R2 by R2 + (-5)R1:  $12 \ 2 \ 22 \ 321 \ xx \ x \ ++ \ - = 12 \ 2 \ 0321 \ - \ -$  Scale R2 by -1/3:  $12 \ 2 \ 22 \ 7 \ xx \ x \ ++ \ - = - \ 12 \ 2 \ 01 \ 7 \ - \ -$  Replace R1 by R1 + (-2)R2:  $1 \ 2 \ 12 \ 7 \ x \ x \ = \ - \ 10 \ 12 \ 01 \ 7 \ -$  The solution is  $(x_1, x_2) = (12, -7)$ , or simply  $(12, -7)$ .

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integers. Set up a linear system in the unknowns:  $x, 1, x, 2, x, 3, 4$ , and show that the system will be consistent if and only if  $a, 1 + a, 2 + a, 3 + a, 4 = b, 1 + b, 2 + b, 3 + b, 4$ . What can you conclude about the number of auto-Leon: Linear Algebra with Applications 8/E 6/22/07 10:42 Page 25. Delete the arrow here. There should be no arrows in the intersections.

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