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From MATLAB's command line type  $A = \text{randn}(3, 4)$  to generate a  $3 \times 4$  matrix with random entries. To learn more about the `randn` command, type `help randn`. Now type  $x = \text{randn}(4, 1)$  to get a vector (a  $4 \times 1$  matrix) of random numbers. To multiply  $A$  by  $x$  and store the result in a new vector  $b$ , type  $b = A*x$ .

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ops that standard matrix-vector multiplication takes. Meanwhile, calculating  $R$  and using it to solve  $Ax = b$  takes a total of around  $ns^2 + 4ns$  ops, which is many fewer ops if  $s$  is much smaller than  $n$ .  
Problem 0.12.

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Since  $u$  and  $v$  are vectors the expression  $v^T A^{-1} u$  is a scalar and the  $I$  is also a scalar namely. the number 1. Multiplying the above by  $A$  on the left the linear system that  $x$  must satisfy.  $Ax = b u (1 + v^T A^{-1} u) + v^T A^{-1} b$ . In this expression, both  $v^T A^{-1} u$  and  $v^T A^{-1} b$  are scalars, thus by factoring out the only vector.

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