
Table of Contents

Problem 6.36 from textbook	1
Problem 6.41 from textbook	1
Problem 6.45 from textbook	1

Problem 6.36 from textbook

Find all nontrivial solutions of $Ax = 0$, i.e. null space of A

```
A = [26 17 8 39 35;17 13 9 29 28;8 9 10 19 21;39 29 19 65 62;35 28 21
    62 61];
[Q,R] = qr(A);
```

Problem 6.41 from textbook

Find least squares solution to a and b

```
y = [5 1 7]';
M = [1 2;1 -2;1 5];
temp = inv(M'*M)*M';
abvec = temp*y;
```

Problem 6.45 from textbook

```
%Solve for C and alpha and predict time for one mile
T = [185 79.6 60 37.9 11.5]';
D = [26.2 12.4 9.5 6.2 2]';

y = log(T);
M = [ones(5,1) log(D)];

calphavec = inv(M'*M)*M'*y;
```

Published with MATLAB® R2019b