```
A = [1 0; 0 1; 1 2];
b = [1 1 1]';
[Q, R] = mgs(A);
RHS = Q.' * b;
x = backward_substitution(R, RHS);
```

```
Q =

0.7071 -0.5774
0 0.5774
0.7071 0.5774

R =

1.4142 1.4142
0 1.7321

x =

0.6667 0.3333
```

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