```
A = [1 0; 0 1; 1 2];
[V, R] = house(A);
R

Q = formQ(V);
```

```
V = \begin{bmatrix} 0.9239 & 0 & \\ 0 & 0.8881 \\ 0.3827 & 0.4597 \end{bmatrix}
R = \begin{bmatrix} -1.4142 & -1.4142 \\ 0 & -1.7321 \\ 0.0000 & 0 \end{bmatrix}
Q = \begin{bmatrix} -0.7071 & 0.5774 & -0.4082 \\ 0 & -0.5774 & -0.8165 \\ -0.7071 & -0.5774 & 0.4082 \end{bmatrix}
```

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