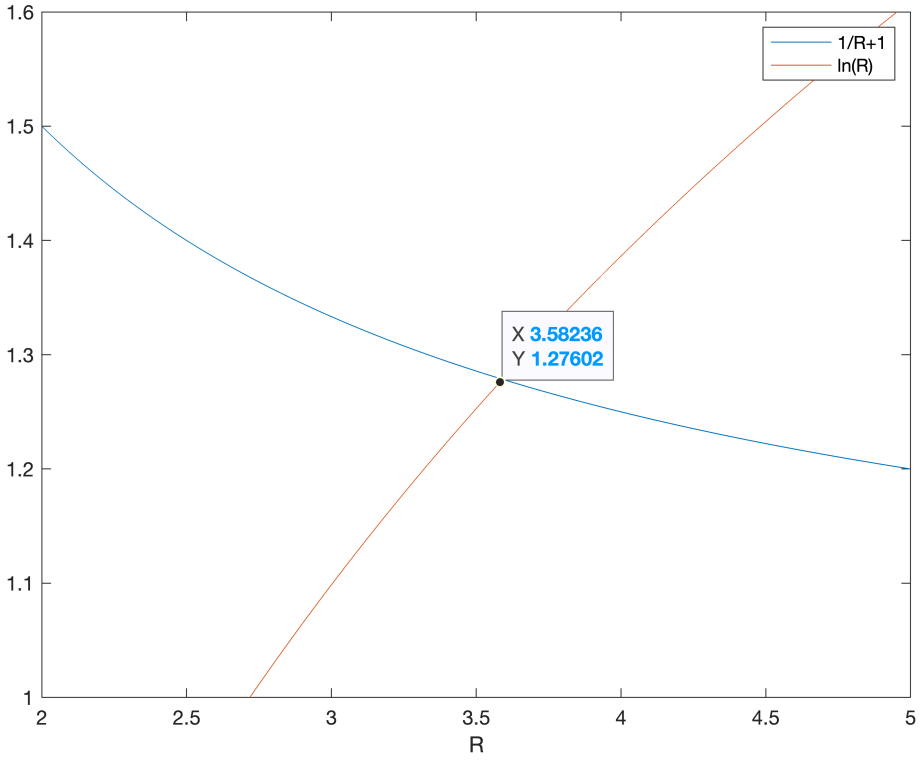
HW5 Q3

graphical sulotion

```
R=linspace(0,10,10000)
```

```
R = 1×10000
         0    0.0010    0.0020    0.0030    0.0040    0.0050    0.0060    0.0070 ···
```

```
plot(R,1./R+1)
hold on
plot(R,log(R))
ylim([1,1.6])
xlim([2,5])
ax = gca;
chart = ax.Children(1);
datatip(chart,3.582,1.276);
xlabel('R')
legend('1/R+1','ln(R)')
```



Numeric

```
syms R
eqn = 1/R+1-log(R) == 0
```

```
eqn =
```

$$\frac{1}{R} - \log(R) + 1 = 0$$

```
S = solve(eqn);
var = vpa(S)
```

```
var = 3.591121476668622136649222925741 6
```