

Code block which uses a variable **s** to store the solutions:

```
1+1
var('a,b,c')
eqn = [a+b*c==1, b-a*c==0, a+b==5]
s = solve(eqn, a,b,c)
```

Solutions of  $\text{eqn} = [bc + a = 1, -ac + b = 0, a + b = 5]$ :

$$\left[ a = -\frac{1}{4}i\sqrt{79} + \frac{11}{4}, b = \frac{1}{4}i\sqrt{79} + \frac{9}{4}, c = \frac{1}{10}i\sqrt{79} + \frac{1}{10} \right]$$
$$\left[ a = \frac{1}{4}i\sqrt{79} + \frac{11}{4}, b = -\frac{1}{4}i\sqrt{79} + \frac{9}{4}, c = -\frac{1}{10}i\sqrt{79} + \frac{1}{10} \right]$$