```
c(t) = CPI(t) - CPI(t - 1)
                            c(t) = 0.2461 c(t-1) + 0.4142 c(t-2) + 0.176 c(t-3) + \varepsilon
     -CPI(t-1) = 0.2461(CPI(t-1) - CPI(t-2)) + 0.4142(CPI(t-2) - CPI(t-3)) + 0.176(CPI(t-3) - CPI(t-3))
      w(t) = wage(t) - wage(t - 1)
                                     w(t) = -0.5826 w(t-1) + 0.1245 c(t) + \varepsilon
     ey(t) = equity\_yield(t) - equity\_yield(t - 1)
                                    ey(t) = -0.4930 ey(t-1) - 0.0677 c(t) + \varepsilon
     ed(t) = equity\_dividend(t) - equity\_dividend(t - 1)
                             ed(t) = 0.3819 ed(t-1) - 0.0034 c(t) - 0.0147 ey(t) + \varepsilon
     lt(t) = long\_term\_bond\_yield(t) - long\_term\_bond\_yield(t - 3)
                              lt(t) = 0.7557 lt(t-1) + 0.0521 c(t) - 0.0103 ey(t) + \varepsilon
     st(t) = short_term_bond_yield(t) - short_term_bond_yield(t - 1)
                             st(t) = -0.0618 st(t - 1) + 0.1538 lt(t) + 0.0067 ey(t) + \varepsilon
m_0 = \text{data} = \{\{0.000277985, 0.00764099, 0.022943729, -0.093705161, 0.020324326, -1.00 E - 04\}, \}
          {0.002324318, 0.009642403, 0.021237475, 0.098638869, 0.022331429, 0.001600213},
          {-0.000508316, 0.001741042, 0.02264259, -0.059106928, 0.016592891, 0.002100368},
          {0.008435609, 0.007478544, 0.021638903, 0.06115197, 0.016602919, 0.002600563}};
In[@]:= Solve[
         CPI[t] - CPI[t-1] == 0.2461 (CPI[t-1] - CPI[t-2]) + 0.4142 (CPI[t-2] - CPI[t-3]) +
            0.176 (CPI[t - 3] - CPI[t - 4]), CPI[t]] // Flatten // Simplify
Out_{f} = {CPI(t) \rightarrow -0.176 CPI(t-4) - 0.2382 CPI(t-3) + 0.1681 CPI(t-2) + 1.2461 CPI(t-1)}
In[*]:= Solve[
         wage[t] - wage[t - 2] = -0.5826 (wage[t - 1] - wage[t - 2]) + 0.1245 (CPI[t] - CPI[t - 1]),
         wage[t]] // Flatten // Simplify
Out_{f} = \{wage(t) \rightarrow -0.1245 \text{ CPI}(t-1) + 0.1245 \text{ CPI}(t) + 1.5826 \text{ wage}(t-2) - 0.5826 \text{ wage}(t-1)\}
In[*]:= Solve[equityYield[t] - equityYield[t - 1] ==
           -0.4930 (equityYield[t - 1] - equityYield[t - 2]) - 0.0677 (CPI[t] - CPI[t - 1]),
          equityYield[t]] // Flatten // Simplify
Out_{[t]} = \{equityYield(t) \rightarrow 0.0677 CPI(t-1) - 0.0677 CPI(t) + 0.493 equityYield(t-2) + 0.507 equityYield(t-1)\}
In[*]:= Solve[equityDividend[t] - equityDividend[t - 1] ==
           0.3819 (equityDividend[t - 1] - equityDividend[t - 2]) - 0.0034 CPI[t] -
            CPI[t - 1] - 0.0147 (equityYield[t] - equityYield[t - 1]),
         equityDividend[t]] // Flatten // Simplify
Outfo ]= {equityDividend(t) \rightarrow -1. CPI(t - 1) - 0.0034 CPI(t) - 0.3819 equityDividend(t - 2) +
           1.3819 equityDividend(t-1) + 0.0147 equityYield(t-1) - 0.0147 equityYield(t)
```

```
In[@]:= Solve[longTerm[t] - longTerm[t - 3] ==
             0.7557 (longTerm[t - 1] - longTerm[t - 4]) + 0.0521 (CPI[t] - CPI[t - 1]) -
               0.0103 (equityYield[t] - equityYield[t - 1]), longTerm[t]] // Flatten // Simplify
Out_{[]} = \{IongTerm(t) \rightarrow -0.0521 \text{ CPI}(t-1) + 0.0521 \text{ CPI}(t) + 0.0103 \text{ equityYield}(t-1) - 0.0103 \text{ equityYield}(t-1) \}
             0.0103 \text{ equityYield}(t) - 0.7557 \log \text{Term}(t-4) + 1. \log \text{Term}(t-3) + 0.7557 \log \text{Term}(t-1)
In[*]:= Solve[shortTerm[t] - shortTerm[t - 1] ==
             -0.0618 (shortTerm[t - 1] - shortTerm[t - 2]) + 0.1538 (longTerm[t] - longTerm[t - 3]) +
               0.0067 (equityYield[t] - equityYield[t - 1]), shortTerm[t]] // Flatten // Simplify
Out[\circ] = \{ \text{shortTerm}(t) \rightarrow -0.0067 \text{ equityYield}(t-1) + 0.0067 \text{ equityYield}(t) - 0.0067 \}
             0.1538 \log \mathrm{Term}(t-3) + 0.1538 \log \mathrm{Term}(t) + 0.0618 \operatorname{shortTerm}(t-2) + 0.9382 \operatorname{shortTerm}(t-1) \}
                      st(t) = 1.02195 s(t-1) - 0.0219 st(t-2) + 0.005 ey(t-1) - 0.005 ey(t-2)
```