```
In [ ]: A = [1 1 1 -2 -2; 1 2 4 -10 -20; 1 3 9 -27 -81; 1 4 16 4 16; 1 5 25 20 100]
       5×5 Matrix{Int64}:
Out[ ]:
        1 1 1 -2 -2
        1 2 4 -10 -20
        1 3 9 -27 -81
        1 4 16
                   4 16
        1 5 25
                   20 100
In [ ]:
        B = [2; 5; 9; -1; -4]
       5-element Vector{Int64}:
Out[]:
         5
         9
        -1
        -4
In [ ]:
        x = inv(A)*B
        println("c1 = ", x[1])
        println("c2 = ", x[2])
        println("c3 = ", x[3])
        println("d1 = ", x[4])
        println("d2 = ", x[5])
       c1 = 0.6296296296296291
       c2 = 0.6049382716049365
       c3 = -0.19753086419753213
       d1 = -0.5679012345679013
       d2 = 0.08641975308641972
In [ ]:
        function f(t, X = x)
            return ((x[1] + (x[2] * t) + (x[3] * t * t))
                /(1 + (x[4] * t) + (x[5] * t * t)))
        end
       f (generic function with 2 methods)
Out[ ]:
In [ ]:
        using Plots
        Plots.PyPlotBackend()
        plot(f, 0, 6, framestyle = :zerolines, xlabel = "t", ylabel = "f(t)"
           , ylims = (-6, 10), yticks = -6:2:10, lw = 2, label = :none)
        scatter!(f,[1:5], label = :none)
```

