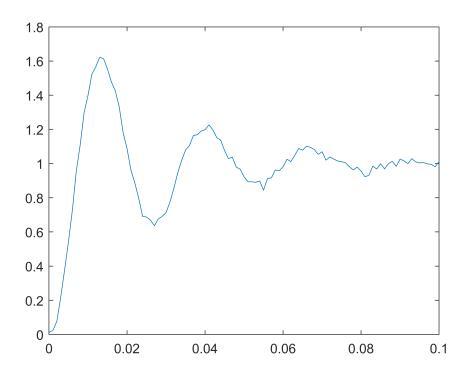
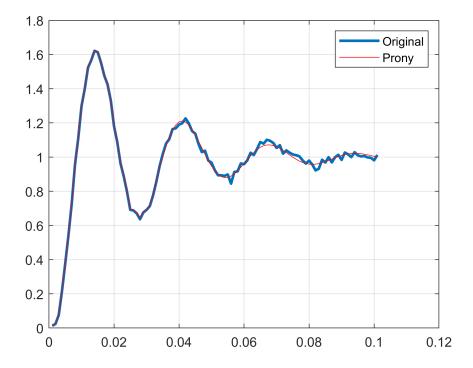


```
vc = lsim(sys, vs, t); [n_vc, m_vc] = size(vc);
vc1 = vc + (rand(n_vc, m_vc) -0.5)*0.1/max(vc); % add noise
figure;
plot(t, vc1);
```





eig_a1 = 3×1 complex 10² × -0.0009 + 0.0000i

```
-0.4053 + 2.3602i
-0.4053 - 2.3602i
```

```
hold on;
plot(real(eig_sys), imag(eig_sys)/2/pi,'rx');
legend('Prony','true eigenvalues');
```

