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```
1.  from scipy.signal import tf2zpk
2.  import numpy as np
3.  import matplotlib.pyplot as plt
4.
5.  x = np.linspace(0,2*np.pi,100)
6.  # x(n) = y(n) - 3y(n-1) + 2y(n-2)
7.  a = [1,-3,2]
8.  b = [1,0,0]
9.  z, p, k = tf2zpk(b,a)
10. plt.plot(p.real,p.imag,'x')
11. plt.plot(z.real,z.imag,'o',markerfacecolor='None')
12. plt.plot(np.cos(x),np.sin(x))
13. plt.ylim(-3,3)
14. plt.xlim(-3,3)
15. plt.grid()
16. plt.show()
```