Type 3:
$$\left(\frac{j\omega}{\omega_n}\right)^2 + 2\zeta \frac{j\omega}{\omega_n} + 1$$

Stable complex zero — more difficult than Types 1 & 2. First step — let's rewrite in Cartesian form:

$$\left(\frac{j\omega}{\omega_n}\right)^2 + 2\zeta \frac{j\omega}{\omega_n} + 1 = \left(1 - \left(\frac{\omega}{\omega_n}\right)^2\right) + 2\zeta \frac{\omega}{\omega_n} j$$

And here is the Nyquist plot, for $0 < \omega < \infty$:

