Example

$$G(s) = \frac{1}{(s+1)(s+2)}$$
 (no open-loop RHP poles)

Strategy:

- ▶ Start with the Bode plot of G
- ▶ Use the Bode plot to graph Im $G(j\omega)$ vs. Re $G(j\omega)$ for $0 \le \omega < \infty$
- ▶ This gives only a *portion* of the entire Nyquist plot

(Re
$$G(j\omega)$$
, Im $G(j\omega)$), $-\infty < \omega < \infty$

Symmetry:

$$G(-j\omega) = \overline{G(j\omega)}$$

— Nyquist plots are always symmetric w.r.t. the real axis!!