

## Example 3

$$G(s) = \frac{s - 1}{(s + 2)(s^2 - s + 1)} = \frac{s - 1}{s^3 + s^2 - s + 2}$$

Open-loop poles:

$$s = -2 \quad (\text{LHP})$$

$$s^2 - s + 1 = 0$$

$$\left(s - \frac{1}{2}\right)^2 + \frac{3}{4} = 0$$

$$s = \frac{1}{2} \pm j\frac{\sqrt{3}}{2} \quad (\text{RHP})$$

$\therefore$  2 RHP poles