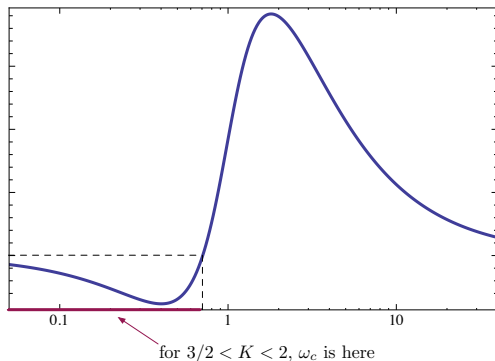# Example 2: Nyquist Criterion and Phase Margin

CL stability range for $G(s) = \dfrac{s - 1}{s^3 + s^2 - s + 2}$: $K \in (3/2, 2)$

We can interpret this in terms of phase margin:

for $3/2 < K < 2$, ω_c is here

So, in this case, stability $\Longleftrightarrow$ PM < 0 (atypical case; Nyquist criterion is the only way to resolve this ambiguity of Bode plots).