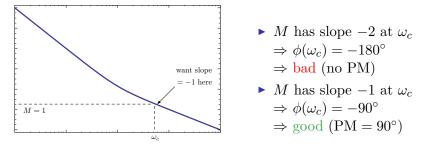
Bode's Gain-Phase Relationship

Gain-Phase Relationship. Far enough from break-points,

Phase \approx Magnitude Slope $\times 90^{\circ}$

This suggests the following rule of thumb:



— this is an important design guideline!!

(Similar considerations apply when M-plot has positive slope – depends on the t.f.)