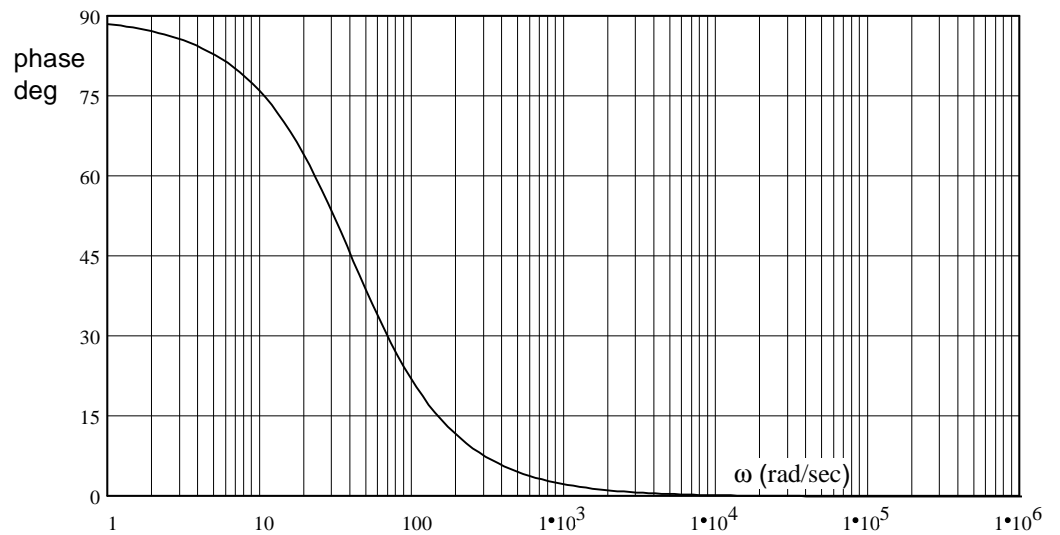
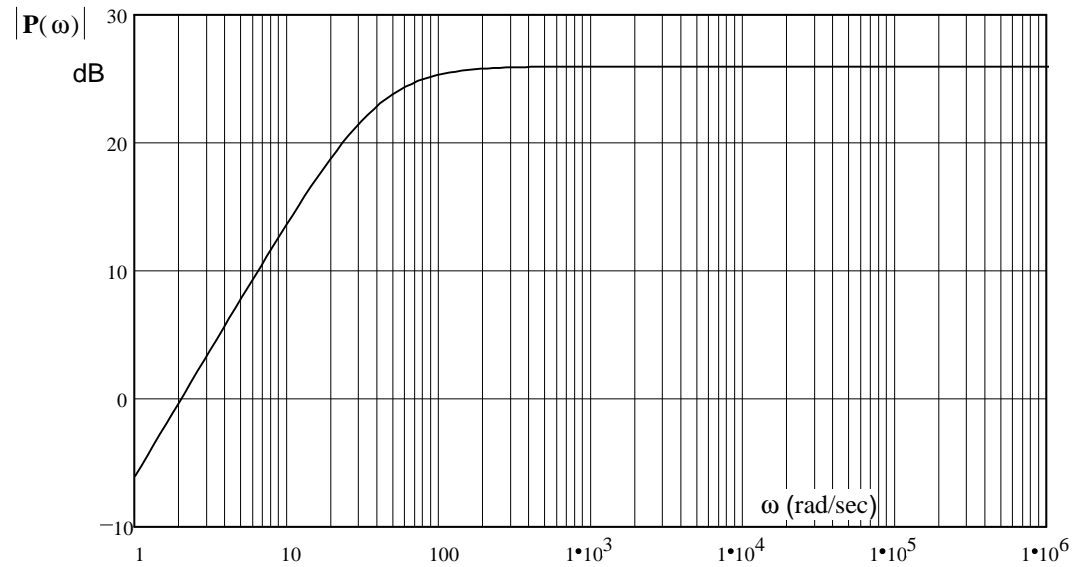
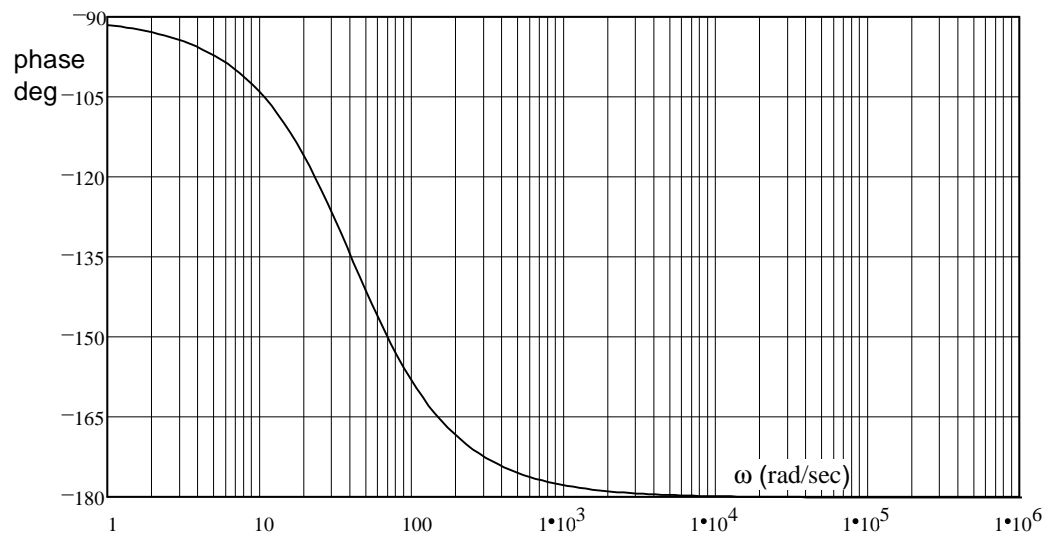


Ex. 1  $P(s) = ?$



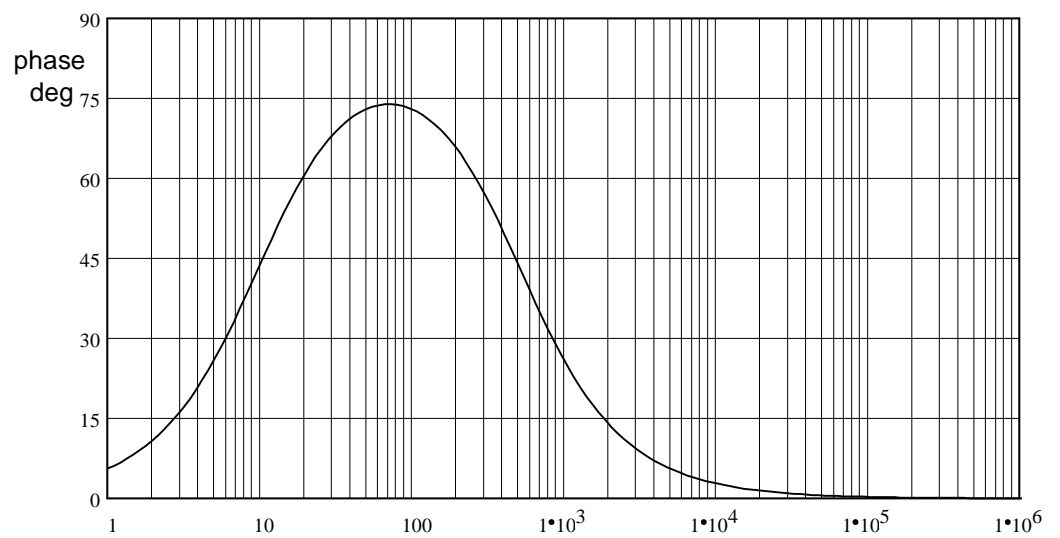
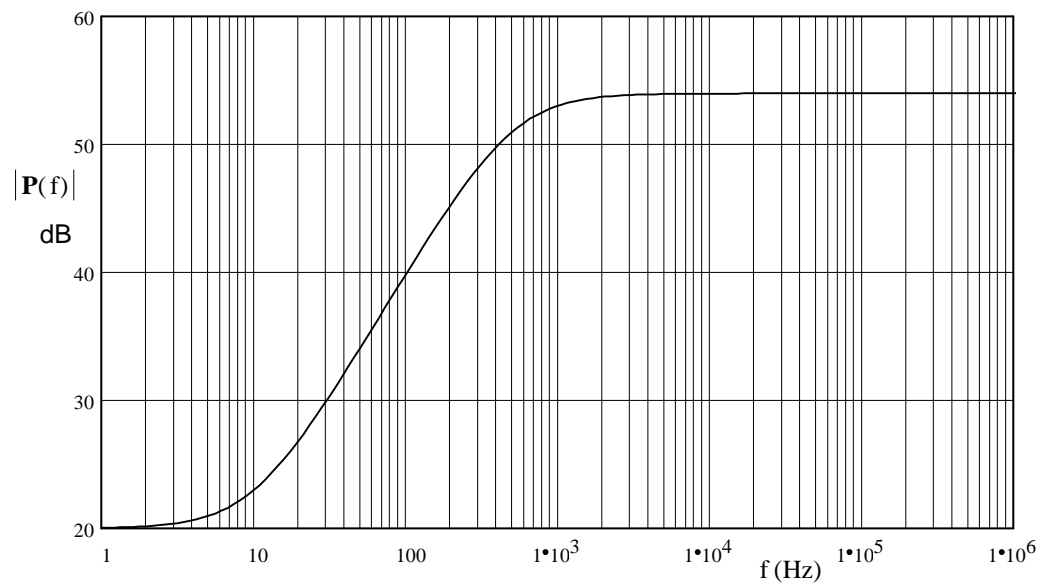
Ex. 2 What if the phase plot was:

$P(s) = ?$



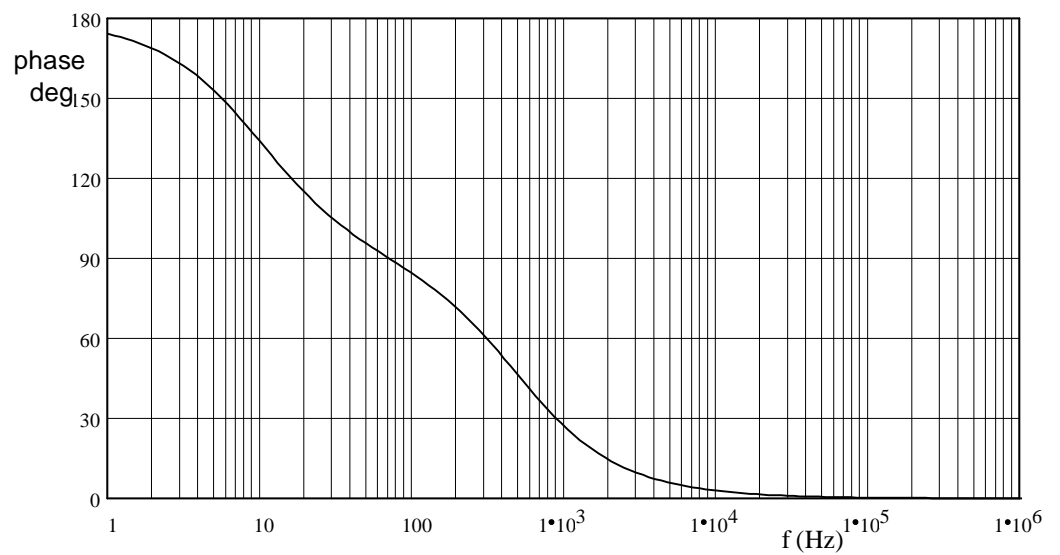
## Bode Plot to Transfer Function Examples p.2

Ex. 3  $P(s) = ?$

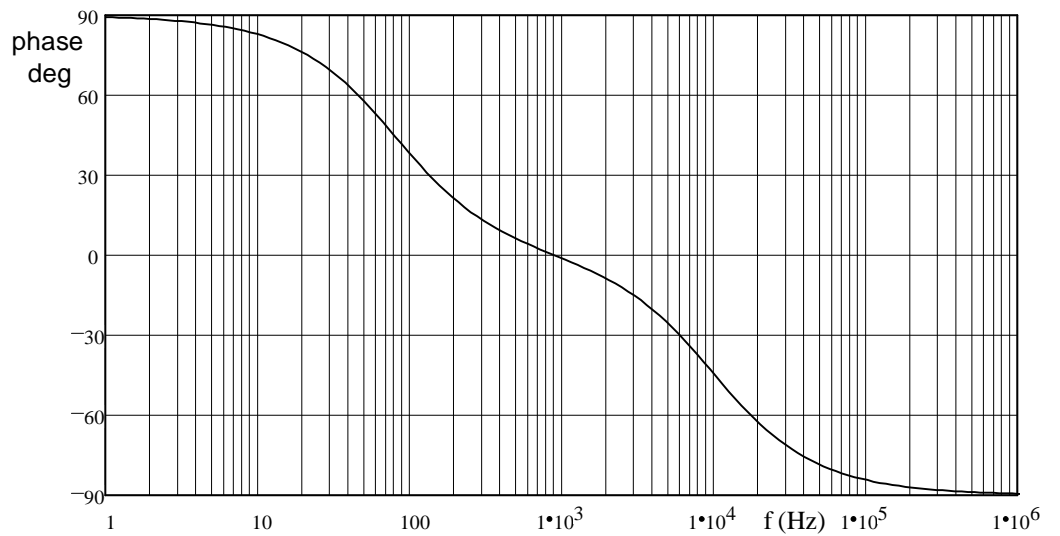
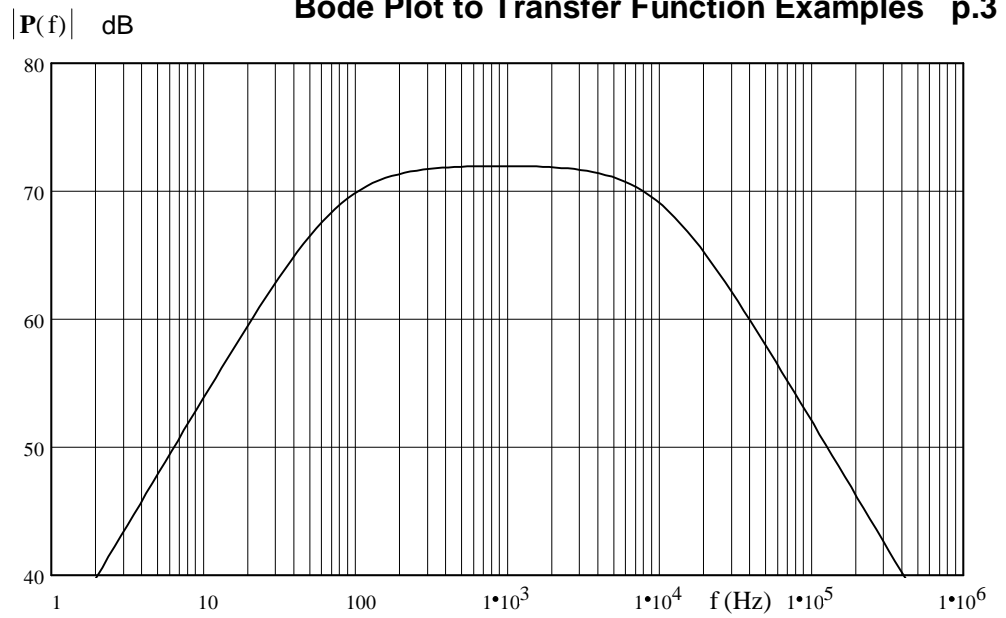


Ex. 4 What if the phase plot was:

$P(s) = ?$

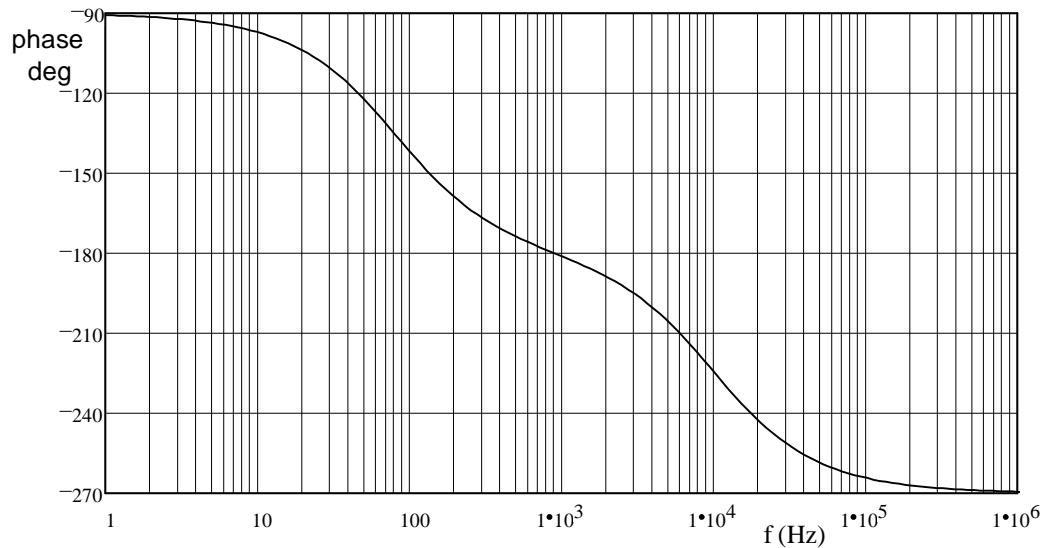


Ex. 5  $P(s) = ?$



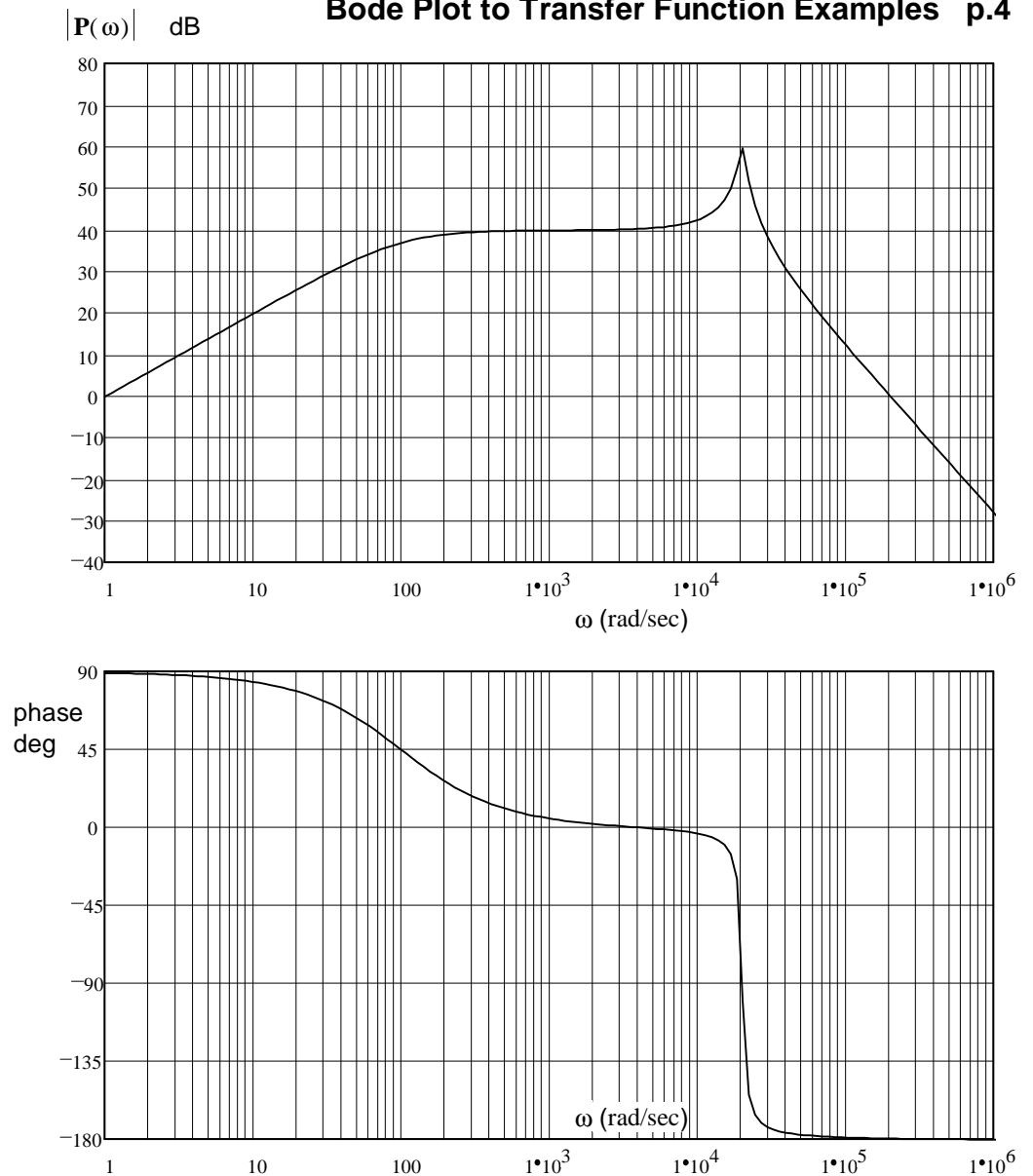
Ex. 6 What if the phase plot was:

$P(s) = ?$



Ex. 7  $P(s) = ?$

### Bode Plot to Transfer Function Examples p.4



Note: A somewhat more involved method is outlined in Nise section 10.13 (p.660 in 3rd ed., 665 in 4th). That method involves estimating only one pole or zero at a time and then subtracting the effect from original to more clearly see the others. This can work much better with real experimental data. Real data always has delay effects and other non-linearities which make the process much harder.