

 10^{2}

 10^{2}

Figure 9.13: Bode plots of the transfer functions $G(s) = s^k$ for k = -2, -1, 0, 1, 2. On a log-log scale, the gain curve is a straight line with slope k. The phase curves

for the transfer functions are constants, with phase equal to $k \times 90^{\circ}$.