Phase Plot for G_1

$$G_1(j\omega) = \frac{j\omega + 1}{j\omega + 5} = \frac{1}{5} \frac{j\omega + 1}{\frac{j\omega}{5} + 1}$$

- Low-frequency term: $\frac{1}{5}(j\omega)^0$— $n = 0$, so phase starts at $0°$
- Break-points at $\omega_n = 1$ (phase goes up by $90°$) and at $\omega_n = 5$ (phase goes down by $90°$)