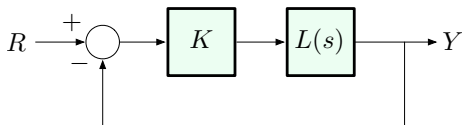
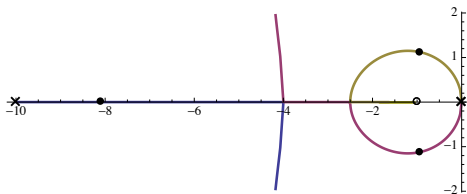


Double Integrator & Lead Compensator



$$L(s) = \frac{s+z}{s+p} \cdot \frac{1}{s^2} \stackrel{z=1}{=} \frac{s+1}{s^2(s+p)}$$

Let's try a few values of p . Here's $p = 10$:



Close to $j\omega$ -axis, this root locus looks similar to the PD root locus. However, the pole at $s = -10$ makes the locus look different for s far into LHP.