Pole Placement via RL

Let
$$G_p(s) = \frac{1}{s-1}$$
, $G_c(s) = K \frac{s+z}{s+p}$

Problem: given p = 2, find K and z to place poles at $-2 \pm 3j$.

Desired characteristic polynomial:

 $(s+2)^2 + 9 = s^2 + 4s + 13$, damping ratio $\zeta = \frac{2}{\sqrt{13}} \approx 0.555$



Must have

