## ECE 461/661 Handout #22

Gain Compensation

The root locus for G(s) is given below

$$G(s) = \left(\frac{200}{(s+0.3)(s+2)(s+5)(s+10)}\right)$$

Determine the gain, k, that results in 20% overshoot in the step response

| Resulting Kp | k | Closed-Loop dominant pole |
|--------------|---|---------------------------|
|              |   |                           |
|              |   |                           |
|              |   |                           |



## Solution

