Answer to HW Problem 28.1 ES 205

Part (a)

$$\frac{Y(s)}{R(s)} = \frac{\left(\frac{K_p}{K_i}s + 1\right)}{\frac{1}{3K_i}s^2 + \left(\frac{1 + 3K_p}{3K_i}\right)s + 1}$$

Part (b)

$K_p = 5.03$
$K_i = 103.8$

Part (c)