

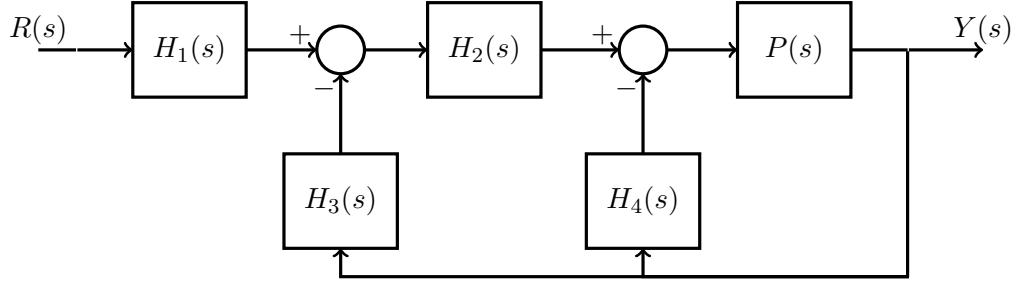
EENG307: Intro to Feedback Control

Fall 2020

Homework Assignment #4

Quiz #7

Quiz Question Monday: Simplify the following block diagram to obtain the transfer function $Y(s)/R(s)$.



$$(a) \frac{Y}{R} = \frac{PH_1}{1-H_4P-H_2H_3P}$$

$$(b) \frac{Y}{R} = \frac{H_2H_1}{1-H_4P+H_2H_3P}$$

$$(c) \frac{Y}{R} = \frac{PH_2}{1+H_4P-H_1H_3P}$$

$$(d) \frac{Y}{R} = \frac{PH_2H_1}{1+H_4P+H_2H_3P}$$

$$(e) \frac{Y}{R} = \frac{PH_2H_1}{1-H_4P-H_2H_3P}$$