## EE23BTECH11217 - Prajwal M\*

Exercise 9.1

from Fig. 2,

12 For the block diagram shown in the figure, the transfer function  $\frac{Y(s)}{R(s)}$  is

$$\frac{2R(s) + Y(s)}{s} + 3R(s) = Y(s)$$

$$\frac{Y(s)}{R(s)} = \frac{3s + 2}{s - 1}$$
(2)

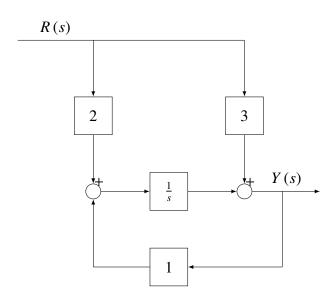


Fig. 1. block diagram

## Solution:

Parameter	Description
Y(s)	output node variable
R(s)	input node variable
$\frac{Y(s)}{R(s)}$	transfer function

TABLE I PARAMETERS

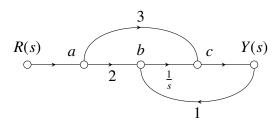


Fig. 2. signal flow graph