

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

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

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

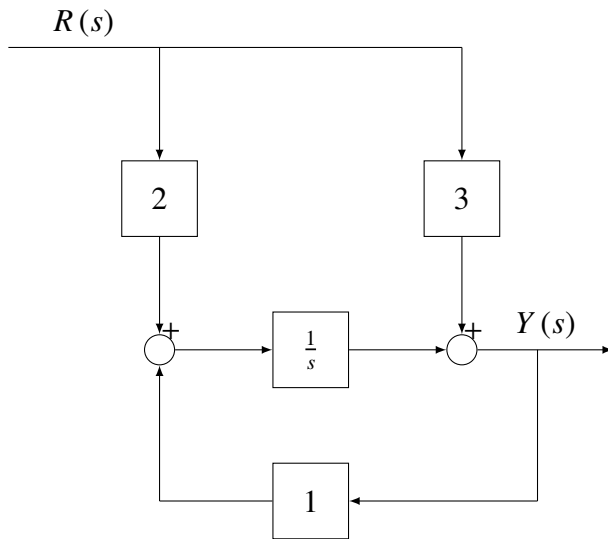


Fig. 1. block diagram

Solution:

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

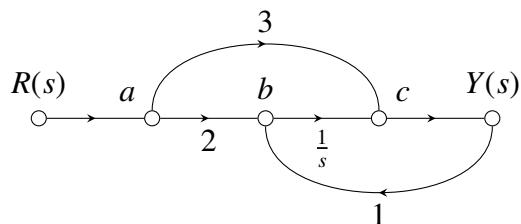
TABLE I
PARAMETERS

Fig. 2. signal flow graph