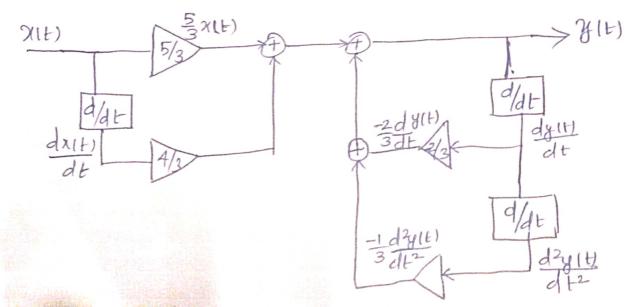
Bonte Elements of Block dragoun.

Description Differentiator	Elements of Block diagram. X(t) d ad x(t). dt dt
Integrator With Zuro initial Condition	$\chi(t) \longrightarrow \int \chi(t) dt$
Multiplies	$\chi(E)$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$
Signal Adder	$\chi_{2(t)}$ $\chi_{2(t)}$ $\chi_{2(t)}$ $\chi_{2(t)}$

Construct the block diagram of the system described by the equation.

$$\frac{dy(E)}{dE^2} + 2\frac{dy(E)}{dE} + 3y(E) = x\frac{dx(E)}{dE} + 5x(E)$$



de dt dt dt dt +5xIt). Draw the Block dragonom using integrations.

Solution:

Integrate the given equation with Zuro mitral conditions

dy (F) + 2g(F) + 3 Sy(F) dF = 4x(F) +5 Sx(F) dF

dF again integrate

y(F) + 2 Sy(F) dF + 3 Sy(F) dF dF +5 Sx(F) dF dF

y(F) = -2 Sy(F) dF - 3 Sy(F) dF dF +4 Sx(F) dF dF +5 Sx(F) dF dF.

