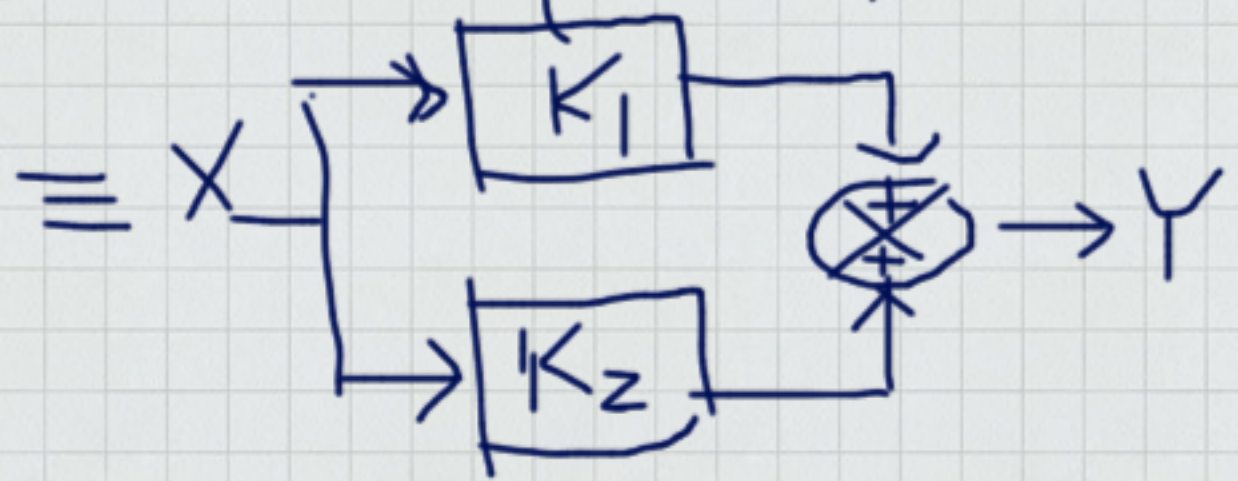
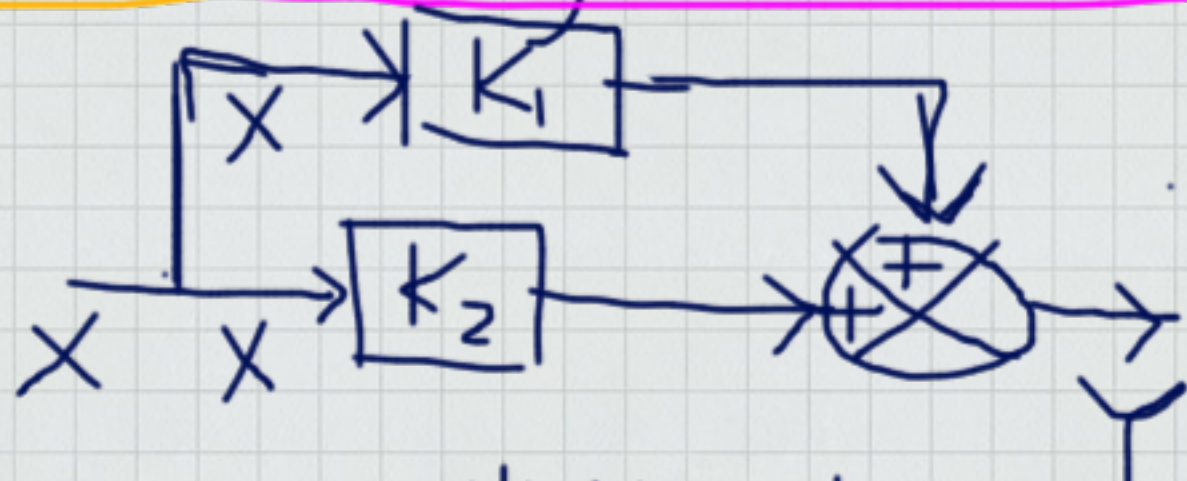
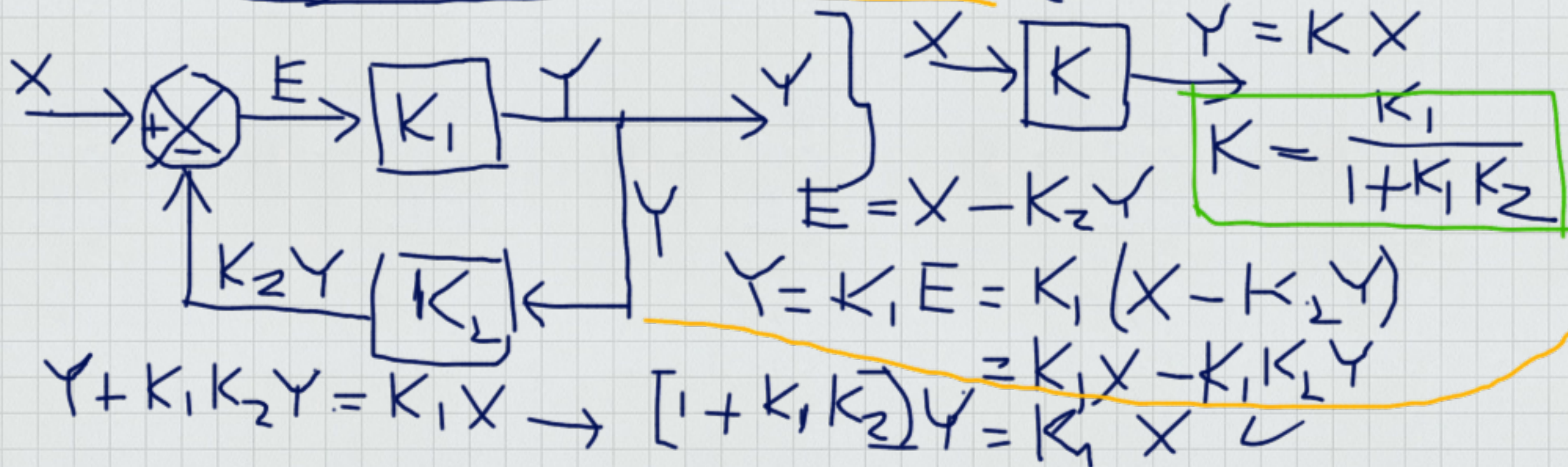


* Hubungan UMPAN MAJU (feed forward)



UMPAN MAJU $\equiv$ PARALEL

* Hubungan UMPAN BALIK (feedback)



$$Y = KX$$

$$K = \frac{K_1}{1 + K_1 K_2}$$

$$E = X - K_2 Y$$

$$Y = K_1 E = K_1 (X - K_2 Y)$$

$$Y + K_1 K_2 Y = K_1 X \rightarrow [1 + K_1 K_2] Y = K_1 X$$