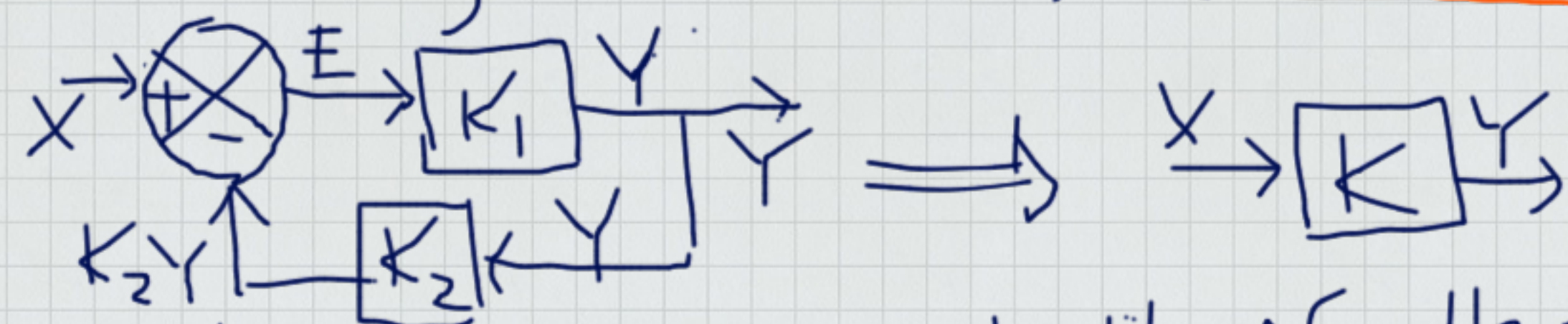


* Hubungan umpan maju (feed forward)



* Hubungan umpan balik (feedback)

→ negative feedback

$$Y = \frac{K_1}{1 + K_1 K_2} X$$

$$Y = K X$$

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

$$E = X - K_2 Y$$

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

$$= K_1 X - K_1 K_2 Y$$

$$Y + K_1 K_2 Y = K_1 X$$

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