Q:
$$\frac{Y(B)}{R(B)} = kr([8I-A+Bk]^{-1}B \text{ fights}$$

$$X(k+1) = A \times (k) + B u(k)$$

$$Y(k) = C \times (k)$$

$$u(k) = -k \times (k) + krr(k)$$

Y(z) = (X(z)) : $\frac{Y(z)}{R(z)} = krC[zZ-A+BK]^TB$