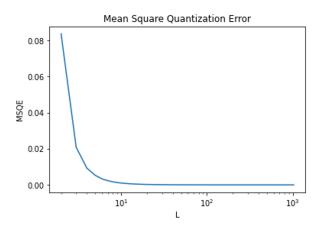
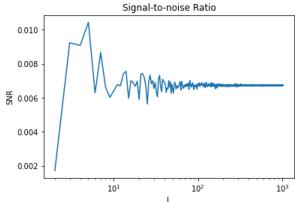
2. power = 0.083





3. A)
$$P \times (x) = \begin{cases} .36 & x = 0 \\ .30 & x = 1 \\ .34 & x = 2 \end{cases}$$

$$P_{Y}(y) = \begin{cases} .36 & y = 0 \\ .32 & y = 1 \\ .32 & y = 2 \end{cases}$$

b)
$$p_{x|y=1}(x) = \begin{cases} \frac{.04}{.32}, & x=0 \\ \frac{.20}{.32}, & x=1 \\ \frac{.08}{.32}, & x=2 \end{cases}$$

$$0) E[X] = E[Y] = \frac{1}{3}$$

$$\omega_{Y}(X) = E[Y] = \frac{1}{3}$$

$$\omega_{Y}(X,Y) = E[XY] - E[X]E[Y]$$

$$= \frac{1}{9} - (\frac{1}{3})(\frac{1}{3})$$

$$= 0$$

$$\Delta = 0$$

$$\sigma^{2} = 1$$

$$\sigma^{2} = 1$$

5)
$$E(Y_1) = E(X_1 - 2X_2 + 1)$$

$$= E(X_1) - 2E(X_2) + 1$$

$$= 0 - 0 + 1 = 1$$

$$E(Y_2) = E(2X_1 + X_2 - 1)$$