

$$2) \quad y[n-d] = a(2nx[n-b]) + x^c[2n]$$

$$a = -1$$

$$b = 1$$

$$c = 1$$

$$d = 1$$

$$y[n-1] = -1(2nx[n-1]) + x^1[2n]$$

sin memori a.

$$3) \quad x[n] = \cos[n_1 n + \theta_1] + \sin[n_2 n + \theta_2]$$

$$= \cos\left[\frac{\pi}{7} n + \frac{\pi}{8}\right] + \sin\left[\frac{8\pi}{7} n + \frac{\pi}{8}\right]$$

$$\frac{2\pi}{\omega_0} \cdot m$$

$$\left[\frac{2\pi}{\frac{\pi}{7}} = \frac{14\pi \cdot m}{\pi} \right]$$

$$= m = 1$$

$$= 14$$

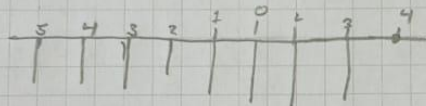
$$\frac{2\pi}{\omega_0} \cdot m$$

$$\frac{\frac{2\pi}{7}}{\frac{8\pi}{7}} = \frac{14\pi}{8\pi} \cdot m$$

$$= m = 8$$

$$= 14$$

$$4) \quad x[n] = u[n-5] - u[n+5] \quad y[n] = x[n+2]$$



$$-5 \leq n \leq 3$$

$$-5 \leq n+2 \leq 3$$

$$-7 \leq n \leq 1$$

$$r = -1$$

$$w = 2$$

$$z = -7$$