

$$(8) a) X[k] = 4 + 3e^{-\frac{jka\pi}{6}} + 2e^{-\frac{jka\pi}{6} \cdot 2} + e^{-\frac{jka\pi}{6} \cdot 3}$$

$$Y[k] = X[k] e^{-\frac{jka\pi}{6} \cdot 5} \quad \therefore y(n) = x(n-5) \text{ mod } 6$$

