

$$(H - \lambda I)x = x^{(k)} = kx^{(k-1)} + p^{(k)}(\lambda)e_1, \quad k = 0, 1, 2, \dots \quad (1)$$

$$y^{(k)}(H - \lambda I) = ky^{(k-1)H} + p^{(k)}(\lambda)e_n^T, \quad k = 0, 1, 2, \dots \quad (2)$$

$$\boxed{(H - \lambda I)x = x^{(k)} = kx^{(k-1)} + p^{(k)}(\lambda)e_1, \quad k = 0, 1, 2, \dots} \quad (3)$$

$$\boxed{y^{(k)}(H - \lambda I) = ky^{(k-1)H} + p^{(k)}(\lambda)e_n^T, \quad k = 0, 1, 2, \dots} \quad (4)$$

$$(H - \lambda I)x = x^{(k)} = kx^{(k-1)} + p^{(k)}(\lambda)e_1, \quad k = 0, 1, 2, \dots \quad (5)$$

$$y^{(k)}(H - \lambda I) = ky^{(k-1)H} + p^{(k)}(\lambda)e_n^T, \quad k = 0, 1, 2, \dots \quad (6)$$