

36

$$U_1' = 1.48$$

$$n=0, k=0$$

$$U_1' = U_0 + \frac{1}{2}(2U_0 + 2U_1')$$

$$n=0, k=1$$

$$= 1.496 = U_1'$$

$$U_2' = U_1' + \frac{1}{2}(2U_1' + 2U_2^{\circ'})$$

$$n=1, k=0$$

$$U_2^{\circ'} = U_1' + 2hU_1' = 2.0944$$

$$U_2' = 2.21408$$

$$U_3' = U_2' + \frac{1}{2}(2U_2' + 2U_3^{\circ'})$$

$$n=1, k=1$$

$$= 2.23802 = U_2'$$

$$U_3' = U_2' + \frac{1}{2}(2U_2' + 2U_3^{\circ'})$$

$$n=2, k=0$$

$$U_3^{\circ'} = U_2' + 2hU_2' \approx 3.13323$$

$$U_3' \approx 3.31227$$

$$U_3' = U_2' + \frac{1}{2}(2U_2' + 2U_3^{\circ'})$$

$$n=2, k=1$$

$$\approx 3.34808 = U_3'$$