3a

$n = 2$:

$$U_3^1 = U_2 + \frac{h}{2}(2U_2 + 2U_3^0)$$

$$U_3^0 = U_2 + h2U_2 = 3.06656$$

$$U_3^1 \approx 3.24179 = U_3$$

$n = 3$:

$$U_4^1 = U_3 + \frac{h}{2}(2U_3 + 2U_4^0)$$

$$U_4^0 = U_3 + h2U_3 \approx 4.53851$$

$$U_4^1 \approx 4.79785 = U_4$$

$n = 4$:

$$U_5^1 = U_4 + \frac{h}{2}(2U_4 + 2U_5^0)$$

$$U_5^0 = U_4 + h2U_4 \approx 6.71699$$

$$U_5^1 \approx 7.10092$$