Tutorial-3

(1)
$$Z_1 = 1.6791$$
 $Z_0 = 0$ $Z_2 = -1.5331$ $Z_3 = 0$

(2)
$$Z_6 = 0$$

$$Z_1 = -0.4182$$

$$Z_2 = -0.05310$$

$$Z_3 = -0.07610$$

$$Z_4 = 0$$

(4)
$$S(x) = \int \frac{1}{12} x^3 - \frac{1}{4} x^2 - \frac{1}{3} x + \frac{3}{2}, \quad x \in [1, 2]$$

$$= \int \frac{1}{12} x^3 - \frac{3}{4} x^2 - \frac{7}{3} x + \frac{17}{6}, \quad x \in [2, 3]$$

$$= -\frac{1}{12} x + \frac{7}{12}$$

$$x \in [3, 4]$$