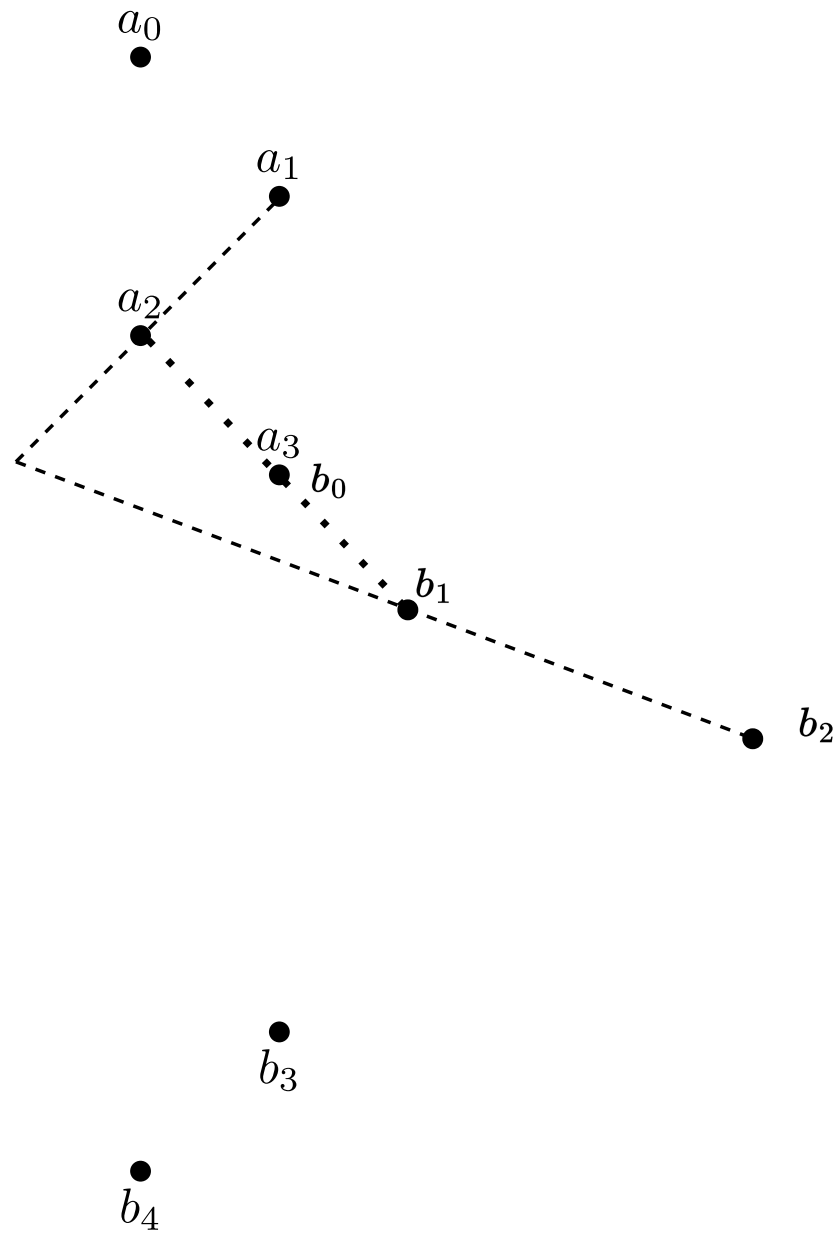


# Computer Grafik Blatt 10

June 2023

# Aufgabe 1.

(a)



**(b)**

$$b_0 = a_1 = (4, 4)$$

$$b_1 = (5, 5), \text{ beliebig wählbar}$$

$$c_1 = (5, 5)$$

$$c_2 = (6, 6), \text{ beliebig wählbar}$$

**(c)**

$$b_0 = a_1 = (4, 4)$$

$$b_0 = \frac{1}{2} \cdot (a_0 + b_1)$$

$$b_1 = 2 \cdot b_0 - a_0$$

$$b_1 = 2 \cdot (4, 4) - (3, 7)$$

$$b_1 = (8, 8) - (3, 7)$$

$$b_1 = (5, 1)$$

$$c_0 = b_1 = (5, 1)$$

$$c_1 = \frac{1}{2} \cdot (b_0 + c_1)$$

$$c_1 = 2 \cdot c_0 - b_0$$

$$c_1 = 2 \cdot (5, 1) - (4, 4)$$

$$c_1 = (10, 2) - (4, 4)$$

$$c_1 = (6, -2)$$

**(d)**

Nicht lösbar.

**(e)**