

$$f(x) = x^3 + x^2 + x \quad \text{vergeben}$$

$$\text{II} f(1) = -17 \quad \text{III} f(2) = -4 \quad \text{IV} f(-2) = 4$$

$$\text{I} f(0) = 8$$

$$f(x) = ax^3 + bx^2 + cx + d$$

$$\text{I} f(0) = a \cdot 0^3 + b \cdot 0^2 + c \cdot 0 + d = 8$$

$$\text{II} f(1) = a \cdot 1^3 + b \cdot 1^2 + c \cdot 1 + d = -17$$

$$\text{III} f(2) = a \cdot 2^3 + b \cdot 2^2 + c \cdot 2 + d = -4$$

$$\text{IV} f(-2) = a(-2)^3 + b(-2)^2 + c(-2) + d = 4$$

$$\text{I} \quad d = 8$$

$$\text{II} \quad 1a + 1b + 1c + 1d = -17$$

$$\text{III} \quad 8a + 4b + 2c + 1d = -4$$

$$\text{IV} \quad -8a + 4b - 2c + 1d = 4$$

$$\text{II} \quad 1a + 1b + 1c + 8 = -17 \quad | -8$$

$$\text{I} \quad d = -8$$

$$\text{II} \quad 1a + 1b + 1c = -25$$

III.

IV

$$\begin{array}{ccc|c} & & & d = -8 \\ 1 & 1 & 1 & -25 \end{array}$$