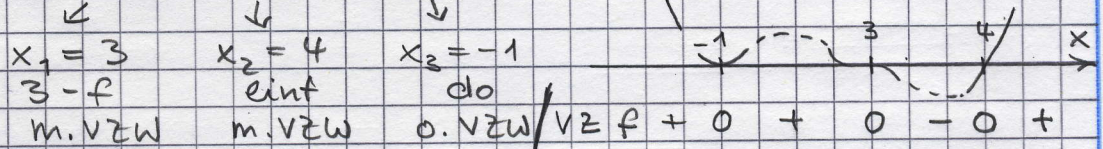


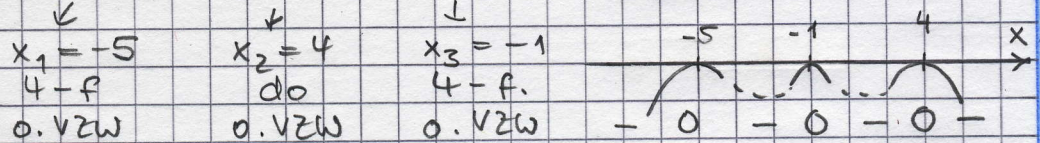
## A Blatt Polynom - Fuen

Aufgabe 1

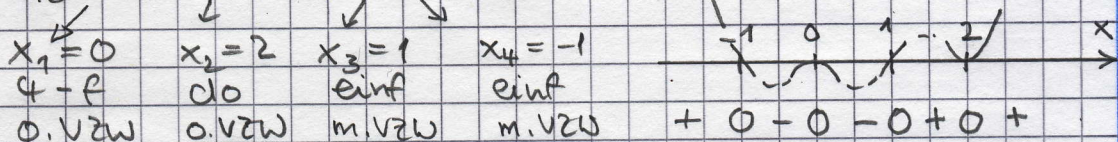
$$a) f(x) = (x-3)^3 (x-4)(x+1)^2 = x^6 \pm \dots$$



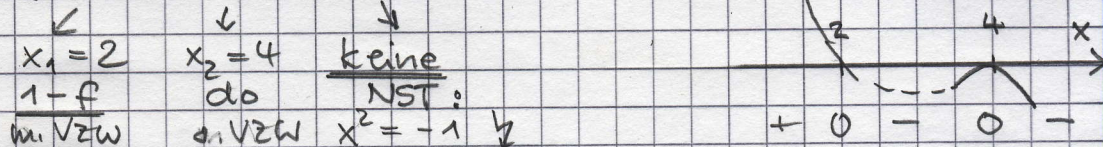
$$b) f(x) = -\frac{1}{8}(x+5)^4(x-4)^2(x+1)^4 = -\frac{1}{8}x^{10} \pm \dots$$



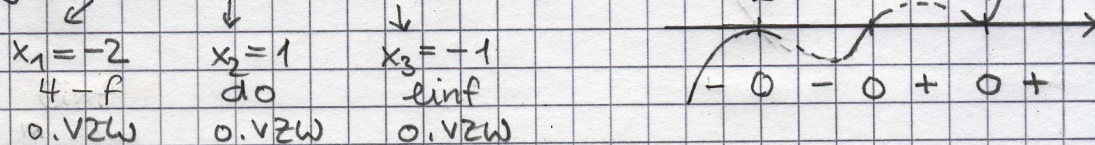
$$c) f(x) = \frac{1}{10}x^4(x-2)^2(x^2-1) = \frac{1}{10}x^8 \pm \dots$$



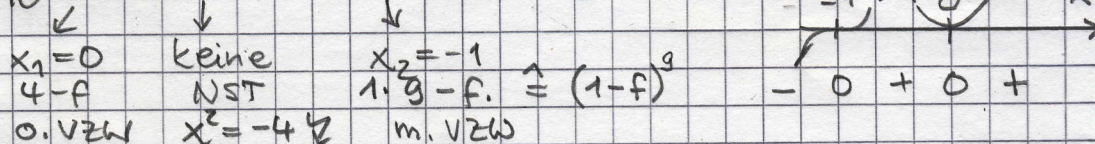
$$d) f(x) = -(x^3-8)(x-4)^2(x^2+1)^2 = -x^9 \pm$$



$$e) f(x) = \frac{1}{3}(x^3+8)(x-1)^2(x^7+1) = \frac{1}{3}x^{21} \pm$$



$$f) f(x) = \frac{1}{10}x^4(x^2+4)^2(x^9+1)^9 = \frac{1}{10}x^{89} \pm \dots$$

Aufgabe 2

$$a) f(x) = -(x+1)^2(x-1)^4(x-3) \quad b) f(x) = (x+3)^3(x+1)^2 \cdot x(x-1)(x-2)^{(3)}$$