LÖSUNG ZU 31:

a) $(x - 1)^3 = x^3 - 3x^2 + 3x - 1 = 0$, $x_{1,2,3} = 1$ oder $(x - 2)^3 = x^3 - 6x^2 + 12x - 8 = 0$, $x_{1,2,3} = 2$

b) $(x - 1)^2 \cdot x = x^3 - 2x^2 + x = 0$, $x_1 = 0$, $x_{2,3} = 1$ oder $(x - 2)^2 \cdot x = x^3 - 4x^2 + 4x = 0$, $x_1 = 0$, $x_{2,3} = 2$

c) $(x - 1) \cdot x \cdot (x + 1) = x^3 - x = 0$, $x_1 = -1$, $x_2 = 0$, $x_3 = 1$ oder $(x - 2) \cdot x \cdot (x + 2) = x^3 - 4x = 0$, $x_1 = -2$, $x_2 = 0$, $x_3 = 2$