Grenzwerbe für x-> xo Din 2-1 = (1-x) (2+1x) (1'm (x-w)(x2+ax+a2) 8) (in x3-a3 = - 8-x3 = K-32 (8-X3) X-12 8-X3 =)  $\frac{(x-2)(x-3)}{(x-2)(x-5)} = \frac{(x-3)}{(x-3)} = \frac{7}{3}$ 8) (im 2-5x+6.  $\frac{(x-1)\cdot (3x^{3} \times 2 - x - 1)}{(x-1)^{2}} = \frac{(x-1)\cdot (x-1)\cdot (3x^{2} + 2x + 1)}{(x-1)^{2}} = \frac{(x-1)\cdot (x-1)\cdot (3x^{2} + 2x + 1)}{(x-1)^{2}} = \frac{(x-1)\cdot (x-1)\cdot (3x^{2} + 2x + 1)}{(x-1)^{2}} = \frac{(x-1)\cdot (x-1)\cdot (x-1)\cdot$ (in 3x4-4x3+1 = 1.07 (x-1)2 = x-71 = 3x3-x 2-1 -x-1 (x-1) (-x2=x+2) = 6 in (x-1) -x-17 (x-1) (x2-1) = x-11 (x-1) -x2-x+2: x-1-7x +x2-x) Polynomialision ist SheiBe (1) = (1) 1-1-1313x = (1) = (1 3(1-x)

 $0 = \frac{1}{x^{-3}} = \frac{1}{x} = \frac{1}{x^{-3}} = \frac{1}{$