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$p(x) = a \cdot x^3 + b \cdot x^2 + c$	· x + d	
1. p(0) = -3,375		
2. P(3)=0		
3. P'(-1,5) = -22,5	Steigung von Tangente, ke	in Hoch-oder Tiefpunkt
4. P"(4) = 1 9,5	kein Wendepunkt	
p(0)=-3,375, denn a	$0^{3} + 6 \cdot 0^{2} + c \cdot 0 + 0$	d = -3,375, also d = -3,375
$P(x) = a x^{3} + 6 x^{2} + c x + c$		
$P'(x) = 3 \ a \ x^2 + 2 \ b \ x + c$		
P''(x) = 6 a x + 2 b		
$P(3) = a \cdot 3^3 + 6 \cdot 3^2 + c$. 3 - 3,3 75 = 0 -	H3,375
P'(-1,5)=3a.(-1,5)2+		
P"(9) = 6 a · 4 + 2 6 = 1		
279+96+3c=3,3	7.5	
6,759-36+1c=-	2 2 ,5	
299+26+0c=19,	5	
2 7 9 3 3 3,375 1: 3	9 3 1 1,125	-69,75a = -34,875 :69,75
6,75 -3 1 -22,5	2,25 6 0 23,6257	9 = 0,5
24 2 0 19,5	72 6 0 58,5 4	2,25.0,5 + 66=23,625
9 3 1 1 1 1 2 5 7	9 3 1 1,125	1,125+66 = 23,625 11,125
675 -3 1 -22,5 4	2,25 6 0 23,625	66 = 22,5 :6
29 2 0 19,51.3	-69,75 0 0 -34,875	6 = 3,75
		9.0,5+3.3,75+c=1,125
Antwort: $p(x) = 0.5x^3 + 3.7$	5x-14,625x-3,375	15,75 + c = 1,1 251-15,8
		c=14,625

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$$\begin{split} \rho(x) &= 0, 5 x^{3} + 3, 75 x^{2} - 14, 625 \times -3, 375 \\ P'(x) &= 1, 5 x^{2} + 7, 5 x - 14, 625 \\ P''(x) &= 3 x + 7, 5 \\ P''(x) &= 3 \\ 0, 5 x^{3} + 3, 75 x^{2} - 14, 625 x - 3, 375 : (x - 3) = 0, 5 x^{2} + 5, 25 x + 1, 125 \\ -(0, 5 x^{2} - 1, 50 x^{2}) \\ 0 + 5, 25 x^{2} - 14, 625 x \\ -(5, 25 x^{2} - 15, 750 x) \\ 0 + 1, 125 x - 3, 375 \\ 0 + 0 \\ 0, 5 x^{2} + 5, 25 x + 1, 125 = 0 \text{ is} \\ x^{2} + 10, 5 x + 2, 25 = 0 \text{ ipq} \\ x_{10} - 5, 25 x^{2} + 5, 03 \\ x_{10} - 5, 25 x^{2} + 5, 03 \\ x_{10} - 10, 28 \\ x_{2} - 0, 22 \\ \text{HP } f'(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP } f''(x) &= 0 + 1, 5 x^{2} + 7, 5 x - 14, 625 = 0 \text{ i:} 1, 5 \\ \text{TP$$

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