

$$\text{Geg: } P(19) = -361 \quad W_1(4/3584)$$

$$W_2(15/3375)$$

f ... Polynom-Funktion 4^{ter} Grades

f'' ... Polynom-Funktion 2^{ter} Grades

$$\Rightarrow f''(x) = R(x-4) - (x-15)$$

$$f''(x) = R \cdot (x^2 - 19x + 60)$$

$$\int f''(x) \cdot dx = \int R \cdot (x^2 - 19x + 60) \cdot dx$$

$$= R \cdot \left(\frac{1}{3} \cdot x^3 - \underbrace{19 \cdot \frac{1}{2} x^2 + 60x} \right) + C$$

$$\frac{19}{2}$$

$$f'(x)$$

$$\int f'(x) \cdot dx = R \cdot \left(\frac{1}{5} \cdot \frac{1}{4} \cdot x^4 - \frac{19}{2} \cdot \frac{1}{3} \cdot x^3 + 30x^2 \right) + Cx + \hat{C}$$

$$1) f(19) = -361$$

$$2) f(4) = 3584$$

$$3) f(15) = 3375$$