Aufgabe 1:

x= 3750

$$\Gamma^{V}(x) = \frac{(x^{4} - x^{6}) \cdot (x^{4} - x^{5}) \cdot (x^{4} - x^{2})}{(x - x^{6}) \cdot (x - x^{5}) \cdot (x - x^{3})} = \frac{(5200) \cdot (5200 - 2000) \cdot (5200 - 40,000)}{(x - 2000) \cdot (x - 2000)} = \frac{AP, 852, 900, 900}{x \cdot (x - 2000) \cdot (x - 30,000)}$$

$$\sqrt{(x-x^0)\cdot(x^4-x^4)\cdot(x^5-x^3)} = \frac{2000\cdot(2000-5200)\cdot(2000-40,000)}{x\cdot(x-x^0)\cdot(x-x^0)\cdot(x-x^0)\cdot(x-x^0)} = \frac{-\rho_3\cdot200\,,000\,,000}{x\cdot(x-x^0)\cdot(x-x$$

$$\zeta_{3}(x) = \frac{(x_{3} - x_{0}) \cdot (x_{3} - x_{1}) \cdot (x_{3} - x_{2})}{(x - x_{1}) \cdot (x - x_{2})} = \frac{x \cdot (x - 3200) \cdot (x - 21000)}{x \cdot (x - 21000)} = \frac{352 \cdot (000 \cdot (000 \cdot 000) \cdot (000)}{x \cdot (x - 21000)}$$

$$P_{3}(3750) = -\frac{5}{64} \cdot 1013 + \frac{5}{8} \cdot 747 + \frac{15}{32} \cdot 540 - \frac{1}{64} \cdot 226 = \frac{40'789}{64} \approx \frac{637.328}{64}$$