

Zadanie 9

$$f(x) = (x - c_1) P(x) + r_1 \Rightarrow f(c_1) = r_1$$

$$f(x) = (x - c_2) Q(x) + r_2 \Rightarrow f(c_2) = r_2$$

$$f(x) = (x - c_1)(x - c_2) R(x) + \underbrace{Ax + B}_{\substack{\text{reszta 2. stopnia} \\ \text{poziomy} \\ (x - c_1)(x - c_2)}} \Rightarrow$$

$$f(c_1) = Ac_1 + B$$

$$f(c_2) = Ac_2 + B$$

$$\begin{cases} r_1 = Ac_1 + B \\ r_2 = Ac_2 + B \end{cases}$$

$$r_1 - r_2 = Ac_1 - Ac_2$$

$$r_1 - r_2 = A(c_1 - c_2)$$

$$A = \frac{r_1 - r_2}{c_1 - c_2}$$

$$B = r_1 - Ac_1$$

$$B = r_1 - \frac{r_1 - r_2}{c_1 - c_2} c_1$$