## Wavenki

$$I) + (x_k) = y_k$$

$$\frac{1}{2} \left[ \begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right] \times \left[ \begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right] \times \left[ \begin{array}{c} 1 \end{array} \right] \times \left[ \begin{array}{c} 1 \\ 1 \end{array} \right] \times \left[ \begin{array}{c} 1 \end{array} \right] \times \left[ \begin{array}{$$

$$\overline{IV}$$
)  $f''(-2) = 5''(2)$ 

$$f(x) = \begin{cases} x^{3} + 6x^{2} + 18x + 13, & x \in [-2, -1] \\ -5x^{3} - 12x^{2} + 7, & x \in [-1, 0] \\ 5x^{3} - 12x^{2} + 7, & x \in [0, 1] \\ -x^{3} + 6x^{2} - 19x + 13, & x \in [-1, 2] \end{cases}$$

$$\frac{3x^{2} + 12x + 18, \quad x \in [-2, -1]}{-15x^{2} - 24x, \quad x \in [-1, 0]}$$

$$\frac{15x^{2} - 24x, \quad x \in [-1, 0]}{-3x^{2} + 12x - 19, \quad x \in [-1, 2]}$$

$$A''(x) = \begin{cases} 6x + 12, & x \in [-2, -1] \\ -30x - 24, & x \in [-1, 0] \\ 30x - 24, & x \in [0, 1] \\ -6x + 12, & x \in [1, 2] \end{cases}$$

## I) z hroku możliwości sprawdzenia zaktodom, że tok

$$\frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = 0$$

$$f_2(0) = f_3(0) : 0+0+7=7$$

$$f_3(1) = f_4(1) = 5-12+7=0$$

$$f_3(1) = f_4(1) = 1+6-18+13=0$$

$$f_1'(-1) = f_2'(-1) : \frac{3}{-15} - 12 + 18 = 9$$

$$f_2'(0) = f_3'(0) : 0+0=0$$

$$f_3(1) = f_4(1): 15-24=-9$$

$$f_1''(-1) \stackrel{?}{=} f_2''(-1) : \frac{-6}{30} + \frac{12}{6} = 6$$

$$f_2''(0) = f_3''(0) : 0 - 24 = -24$$

$$f_3(1) = f_4(1): 30-29=6$$

1v) 
$$f''(-2) = f''(2) : -12+12=0$$