$$f:\mathbb{R} \to \mathbb{R}$$
, $f(x) = \cos \frac{1}{2}x$, $D:x_1 = -1$, $x_2 = 9 \times 3 = 1$,
 $f(-1) = f(1) = 0$, $f(0) = 1$

$$P_1(x) = \alpha_1 + b_1(x+1) + e_1(x+1)^2 + o_1(x+1)^3$$
, $P_2(x) = b_1 + 2 c_1(x+1) + 3 o_1(x+1)^2$
 $P_2(x) = \alpha_2 + b_2x + e_2x^2 + o_1x^3$, $P_2(x) = b_2 + 2c_2x + 3 o_1ex^2$

1)
$$f(-1) = f(-1) \Rightarrow \alpha_1 = 0$$
 (1)

2)
$$P_{1}(0) = P_{1}(0) - 7$$
 $b_{1} + C_{1} + o_{1} = 1$ (2)

3)
$$f_2(0) = f(0) \Rightarrow 2 = 1$$
 (3)

$$\begin{array}{lll}
\rho_{2}(x) = & \alpha_{2} + b_{2} \times + c_{1} \times + ol_{2} \times & & & \\
1) & \beta_{1}(-1) = f(-1) = 0 & \alpha_{1} = 0 & \alpha_{1} = 0 & \alpha_{2} \\
1) & \beta_{1}(-1) = f(-1) = 0 & \alpha_{1} = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 \\
1) & \beta_{1}(-1) = f(0) = 0 & \alpha_{1} = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 \\
2) & \beta_{1}(-1) = f(0) = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 \\
3) & \beta_{2}(-1) = f(0) = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 \\
4) & \beta_{2}(-1) = f(0) = 0 & \alpha_{1} = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 & \alpha_{2} = 0 \\
4) & \beta_{2}(-1) = f(0) = 0 & \alpha_{1} = 0 & \alpha_{2} = 0$$

$$3'(6) = 3'(6) \Rightarrow b_1 + 2 \cdot (1 + 3 \cdot d) = b_2$$

$$3''(6) = 3''(6) \Rightarrow 2 \cdot (1 + 6 \cdot d) = 2 \cdot (1 + 3 \cdot d) = b_2 + (2 + 6 \cdot d) = 1$$

$$b_1 + 2 \cdot (1 + 3 \cdot d) = b_2 + c_2 + 6 \cdot d = 1$$

Sal gislem:
$$b_1 = \frac{3}{2}$$
, $b_2 = 0$, $c_1 = 0$, $c_2 = -\frac{3}{2}$.
 $d_1 = -\frac{1}{2}$, $d_1 = \frac{1}{2}$

$$b_{1} + c_{1} + d_{1} = 1$$

$$b_{2} + c_{2} + d_{1} = -1$$

$$b_{1} + 3c_{1} + 3c_{1} = 5c_{2}$$

$$2c_{1} + 6c_{1} = 2c_{2} = 3c_{1} = 0$$

$$2c_{2} + 6c_{2} = 0$$

$$b_{1} + o b_{1} = 1
 b_{2} + o b_{2} = -1
 b_{1} + 3 o b_{1} - b_{2} = 0
 col_{1} - 2 e_{2} = 0
 2 e_{2} + 6 o b_{2} = 0$$

$$E \times 2$$
: $f: R \rightarrow R$, $f(x) = sim \frac{1}{2}x$, $x_1 = -1$, $y_2 = 0$, $x_3 = 1$
 $f(-1) = -1$ $f(1) = 1$ $= 0$ $(-1, -1)$, $(0, 0)$, $(1, 1)$

$$P_1(x) = \alpha_1 + b_1(x+1) + G(x+1)^2 + d_1(x+1)^3$$

 $P_2(x) = \alpha_2 + b_2 \times + c_2 \times^2 + c_1 \times^3$

Conditii:
$$P_{1}(-1) = f(-1) \Rightarrow 0$$
 $0 = -1$
 $P_{1}(0) = f(0) \Rightarrow 0$ $0 = -1$
 $P_{2}(0) = f(0) \Rightarrow 0$
 $P_{2}(0) = f(0)$

Comolitii metezime

$$9_1^{1}(0) = 9_2^{1}(0) = 31 + 201 + 301 = 52$$
 (3)

$$7!!(0) = 92!(0) = 201 + 6d1 = 202$$

Canolitic complet

$$f'(-1) = f'(-1) \qquad f'(+1) = \frac{1}{2} \cdot \cos\left(\frac{1}{2}x\right)$$

$$72'(1) = f'(1) = 51 = 0 (5)$$

 $52 + 2 C_2 + 30 = 0 (6)$

$$b_1 = x_1$$
 $C_1 = x_2$ $b_2 = x_1$ $C_2 = x_5$ $d_2 = x_1$