1) conjunts 30 porte

$$\mathcal{D} = \{ (x_0, f(x_0)), (x_1, f(x_1)), (x_2, f(x_2)) \}$$

$$\ell_0 = \frac{X - X_1}{X_0 - X_1} \cdot \frac{X - X_2}{X_0 - X_2} = \frac{(X - X_1)(X - X_2)}{(X_0 - X_1)(X_0 - X_2)}$$

$$\ell_1 = \frac{X - X_0}{X_1 - X_0} \cdot \frac{X - X_2}{X_1 - X_2} = \frac{(X - X_0)(X - X_2)}{(X_1 - X_0)(X_1 - X_2)}$$

$$\ell_{2} = \frac{X - X_{0}}{X_{2} - X_{c}} \cdot \frac{X - X_{1}}{X_{2} - X_{1}} = \frac{(X - X_{0})(X - X_{1})}{(X_{2} - X_{0})(X_{1} - X_{1})}$$

$$\rho'(x)_{s_{1}} = f(x_{0}) \frac{(x - x_{1})(x - x_{2})}{(x_{0} - x_{1})(x_{0} - x_{2})} + f(x_{1}) \frac{(x - x_{0})(x - x_{2})}{(x_{1} - x_{0})(x_{1} - x_{2})} + f(x_{2}) \frac{(x - x_{0})(x - x_{1})}{(x_{2} - x_{0})(x_{1} - x_{1})}$$

$$P'(x_0) = \frac{f(x_0)}{(x_0 - x_i)(x_0 - x_2)} \left[x^2 - x_1 x - x_2 x + x_1 x_2 d\right] +$$

$$\frac{f(x_1)}{(x_2-x_0)(x_1-x_1)} \left[\times^2 - x_0 X - x_1 X + x_1 X_0 dx \right]$$

$$= \frac{f(x_0)}{(x_0-x_1)(x_0-x_2)} [2x-x_1-x_2] + \frac{f(x_1)}{(x_1-x_0)(x_1-x_2)} [2x-x_0-x_2]$$

$$=\frac{f(x_0)(2x_0-X_1-X_2)}{(x_0-x_1)(x_0-x_2)}+\frac{f(x_1)(x_0-x_2)}{(x_1-x_0)(x_1-x_2)}+\frac{f(x_2)(x_0-x_1)}{(x_1-x_2)}$$

$$= \frac{-f(x_{2}) \left[-\frac{1}{2} + \frac{f(x_{1}) \left(x_{0} - x_{2} \right)}{\left(x_{1} - x_{0} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{0} - x_{2} \right)}{\left(x_{1} - x_{0} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{0} - x_{2} \right)}{\left(x_{1} - x_{0} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{0} - x_{2} \right)}{\left(x_{1} - x_{2} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{1} - x_{2} \right)}{\left(x_{1} - x_{2} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{1} - x_{2} \right)}{\left(x_{1} - x_{2} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{1} - x_{2} \right)}{\left(x_{1} - x_{2} \right) \left(x_{1} - x_{2} \right)} + \frac{f(x_{1}) \left(x_{2} - x_{2} \right)}{\left(x_{1} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{1} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_{2}) \left(x_{2} - x_{2} \right)}{\left(x_{2} - x_{2} \right)} + \frac{f(x_$$