8. 
$$A = \frac{1}{2} \left[ 3u, S(10), (X1), F(12), (X3), S(23) \right]$$
 $P_2 = \frac{2}{3} \left[ L_0 \cdot F(X_0) \right]$ 
 $L_0 = \prod_{X = X_0} \left[ \frac{X - X_0}{X_1 - X_0} \right] \left[ \frac{X - X_0}{X_0 - X_1} \right] \left[ \frac{X - X_0}{X_0 - X_2} \right] F(X_0) + \left[ \frac{X - X_0}{X_1 - X_0} \right] \left[ \frac{X - X_0}{X_1 - X_0} \right] \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_1 - X_0} \right] \left[ \frac{X - X_0}{X_1 - X_0} \right] \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_2 - X_0} \left[ \frac{X - X_0}{X_2 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0} \right] \frac{X - X_0}{X_0 - X_0} \left[ \frac{X - X_0}{X_0 - X_0}$