

3 November 2022

LK143 Sullhan Abiyyu Hakim 215150201111011 Metnum E

$$P(lQ) = 35 + \frac{7}{10} (2Q - 1951) + \frac{9}{200} (2Q - 1951)(2Q - 1961)$$

$$P(1955) = 35 + \frac{7}{10} (4) + \frac{9}{200} (4)(-6)$$

$$= 36.72 \text{ //}$$

b.) Polinom Lagrange orac 3

$$f_{s}(w) = L_{o}(w) f(w_{o}) + L_{1}(w) f(w_{1}) + L_{2}(w) f(w_{2}) + L_{3}(w) f(w_{3})$$

$$= \frac{(w_{1}-w_{1})(w_{2}-w_{3})(w_{1}-w_{3})}{(w_{0}-w_{1})(w_{0}-w_{3})} f(w_{0}) + \frac{(w_{1}-w_{0})(w_{1}-w_{2})(w_{1}-w_{3})}{(w_{1}-w_{0})(w_{1}-w_{3})(w_{1}-w_{3})} f(w_{0})$$

$$+ \frac{(w_{1}-w_{0})(w_{2}-w_{1})(w_{2}-w_{3})}{(w_{2}-w_{0})(w_{2}-w_{1})(w_{2}-w_{3})} + \frac{(w_{1}-w_{0})(w_{1}-w_{1})(w_{1}-w_{2})}{(w_{2}-w_{0})(w_{3}-w_{1})(w_{3}-w_{2})}$$

$$f_{3}(1955) = \frac{(1955 - 1961)(1955 - 1961)(1961 - 1261)(1961 - 1261)(1961 - 1261)(1961 - 1261)}{(1961 - 1261)(1961 - 126$$

$$+ \frac{(w-40)(w-60)(w-60)}{(w-60)(w-60)(w-60)} + \frac{(w-40)(w-70)}{(v-60)(w-60)(w-70)} + \frac{(w-40)(w-70)(w-70)}{(w-60)(w-60)} = \frac{(w-40)(w-70)(w-70)}{(w-60)(w-60)} = \frac{(w-40)(w-70)(w-60)}{(w-60)(y-70-60)} = \frac{(w-40)(w-70)(w-60)}{(w-60)(y-70-60)} = \frac{(w-40)(w-70)(w-60)(w-60)}{(w-60)(y-70-60)} = \frac{(w-40)(w-70)(w-60)(w-60)}{(w-60)(y-70-60)} = \frac{(w-40)(w-70)(w-60)(w-60)}{(w-60)(y-70-60)} = \frac{(w-40)(w-70)(w-60)(w-60)}{(w-60)(w-60)(w-60)} = \frac{(w-40)(w-60)(w-60)(w-60)(w-60)}{(w-60)(w-60)(w-60)(w-60)(w-60)} = \frac{(w-40)(w-60)(w-60)(w-60)(w-60)}{(w-60)(w-60)(w-60)(w-60)(w-60)(w-60)} = \frac{(w-40)(w-60)(w$$

$$f_{5}(84) = \frac{(34)(24)(14)}{(-10)(-26)} \cdot \frac{(34)(34)(14)}{(10)(-10)(-26)} \cdot 204 + \frac{(44)(34)(14)}{(20)(20)(16)} \cdot 226 + \frac{(44)(34)(24)}{(20)(20)(16)} \cdot 226$$

$$= 294,457$$