Saja mengambil data renis kayor bulat Agathis (saya melampitan sumber data) tahun 2015, 2017 dan 2019 berturt-turrt adalah 2:178, 3.269, 12.915. Tahun disadikan x , Sedongkan sumlah kayu bubut adalah Y. Sehingga xo=2015, x,=2017 dan x2=2019. Nilai yo = 2-173, y1 = 3.269, y2 = 12-915. dari ketiga fithe saya broat P2(x). dani p2(x) saya cola prediksi sumlah kayu bulat tahun 2016.



Poknem Fradrabik Diberikan In (2015) = 2-173 In (2017) = 3.269 In (2019) = 12-913 Distance: In (2016) dan polinam lawaratik Junds (x0, y0) = (2015, 2.173) > a0 +a, 2015 + a2215 = 2.173 (x, y)=(2017, 3.269) > a6+0,2017 + a22017 = 3.264 (x2, ys)=(2019, 12915) > a6+0,2019 + a22019 = 12.915 = a0 + 2015 a1 + 4060 225 a2 = 2.173 ao + 2017a, + 40 68 289az = 3.269 a. + 2019 a, + 4076 361 az = 12.915 > Fliminas gavss ao + 2019 + 4060725 90 + 2017 + 9068 289 /x2 3.269 ao + 2019 + 4076 361

Polinom Lagrange orde 2 Di kalahvi: In (2013) = 2.173 In (2017) = 3.269

In (2019) = 12.995

Ditarya: (2(x) > Lagrange order predigit Jahun In (2016) dan Patr)

Tunds:  $(x_0, y_0) = (2015, 2.173)$   $(x_1, y_1) = (2017, 3.264)$   $(x_2, y_2) = (2019, 12.915)$ 

(2(x) = Yo. LO + Y, Li+ Yz. Lz Lo = (x-x) (x-x2) - (x-2017)(x-2019) (x0-x1) (x0-x2) (2015-2017) (2015-2010)

= (x-2017)(x-2019) = (x-2017)(x-2019) (-2) (-4) = (x-2017)(x-2019)

 $\frac{1}{(x_1-x_0)(x-x_2)} = (x-2015)(x-2019)$   $(x_1-x_0)(x_1-x_2)(2017-2019)(2017-2019)$ 

= (x-2015) (x-2019)

|       | The same of the sa |
|-------|--|
| DATE: |  |

$$\begin{array}{c} L_2 = (x - x_0)(x - x_1) = (x - 2013)(x - 2017) \\ (x_2 - x_0)(x_2 - x_1)(2019 - 2013)(2019 - 2017) \\ = (x - 2013)(x - 2017) \\ 8 \\ 20di Rolinom lagrange orde 2 (92(k) adalah P2(x) = 2.173(x - 2017)(x - 2019) + 3.264(x - 2015)(x - 2019) \\ 8 \\ -4 \\ 12.915(x - 2016)(x - 2017) \\ 2016 - 2017)(2016 - 2019) + 3.264(2016 - 2015)(2016 - 2019) \\ + 12.915(2016 - 2015)(2016 - 2017) \\ 8 \\ -4 \\ + 12.915(2016 - 2015)(2016 - 2017) \end{array}$$

= 
$$271.625(-1)(-3) - 816(1)(-3) + 16193(1)(-1)$$
  
=  $814875 + 2448 - 16143$   
=  $80118$   
Milai Ln (2016)  $\approx 80118$  (by langrange orde 2)

Dipindai dengan CamScanner

|   |   |          |            |  | Edward Company   |          |  |
|---|---|----------|------------|--|--|----------|--|
| 7 | Pal   | Irnom W  | ewton      |  |  |          |  |
| 7 | Dilo  | Wahvi &  | hm Ln      | (2015) =   | 2.173  |          |  |
| ) | -   | 3 5 7    | LY         | (2017) =   | 3.264  | vicin h  |  |
| 1 |   | 1. 1.    | Mark of Li | n (2019) =   | M. 915   |          |  |
|   | Dife  | rya : lu | (2016)     | dan pol  | hom rentin   | orde 8   |  |
|   | Distorper: In (2016) dan polinom renton orde? James |          |            |  |  |          |  |
|   | P2(x) = a0 + a, (x-x0) +a2(x-x0)(x-x.)              |          |            |  |  |          |  |
|   | 120   |          |            | movember de la composition della composition del | agendinantial and electrical case. In the proposed and design processing and the second secon |          |  |
|   | i   | ×i       | P(xi)      | 5T.1   | ST.2   | 1 333    |  |
|   | 0   | 2015     | 2.173      | 0,5455   | 1,07   | sy inst. |  |
| ) | 1   | 2012     | 3.264      | 4,8259   | тор (со-тупноский межда сон. М. Вожда объексий поможе образований выполнять от чество образований выполнять образований выполнить о  |          |  |
|   | 2   | 2019     | 12.915     | S) = (C)   | 2701   |          |  |

$$F[x_1,x_0] = F(x_1) - F(x_0) = 3.269 - 2.173 = 0.5455$$

$$x_1 - x_0 = 2017 - 2015$$

$$F[x_{2}x_{1}] = 12.915 - 3.264 - 4.8255$$

$$2019 - 2017$$

Schingga (2016) = 2.173 + 0.5455 (x-2015) - 1.07 (x-2015) (x-2017) (x-2016) = 2.173 + 0.5455 (2016-2015) - 1.07 (2016-2017) (x-2016) = 2.173 + 0.5455 (2016-2017) (x-2017) = 2.173 + 0.5455 - 1.07(x-2017) = 2.173 + 0.5455 - 1.07

Dipindai dengan CamScanner