



POLITICAL PARTIES' ROLE

FOR PROSPERITY AND DEMOCRATIZATION IN ASEAN COUNTRIES

$$f(x) = -2x^3 + 7x^2 - 9x + 5 \quad | \quad a = 0, \quad b = 3$$

▷ Iterasi 1 [0, 3]

$$f(0) = 5$$

$$\begin{aligned} f(3) &= -2(3)^3 + 7(3)^2 - 9(3) + 5 \\ &= -54 + 63 - 27 + 5 \\ &= -13 \end{aligned}$$

▷ Uji Selang

$$f(0) = 5$$

$$f(0,83) = 1,208726$$

Terbukti $f(a) \cdot f(c) > 0$,

maka carilah selanjutnya [c, b]

▷ Cari nilai c

$$c = b - \frac{f(b)(b-a)}{f(b) - f(a)}$$

$$= 3 - \frac{(-13)(3)}{-18} = 0,83$$

▷ Cari nilai $f(c)$

$$\begin{aligned} f(0,83) &= -2(0,83)^3 + 7(0,83)^2 - 9(0,83) + 5 \\ &= -1,193574 + 4,8223 - 7,47 + 5 \\ &= 1,208726 \end{aligned}$$



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▷ Iterasi 2 $[0,83, 3]$

$$F(0,83) = 1,208726$$

$$F(3) = -13$$

▷ uji selang

$$F(0,83) = 1,208726$$

$$F(0,6075529) = 12,6033$$

▷ Cari nilai C

$$C = b - \frac{F(b)(b-a)}{F(b)-F(a)}$$

$$= 3 - \frac{(-13)(2,17)}{(-11,791274)}$$

$$= 0,6075529$$

Terbukti $F(a) \cdot F(c) \geq 0$,

marka akan selanjutnya $[c, b]$

▷ Cari nilai $F(c)$

$$\begin{aligned} F(0,6075529) &= -2(0,6075529)^3 + 7(0,6075529)^2 + 9(0,6075529) + 5 \\ &= -0,4985205 + 2,543849 + 5,4679761 + 5 \\ &= 12,6033 \end{aligned}$$



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Diberikan 3 $[0, 0,6075529, 3]$

$$F(0,6075529) = 12,6033$$

$$F(3) = -13$$

D Uji selang

$$F(0,6075529) = 12,6033$$

$$F(1,785242047) = 31,9973514$$

D Cari nilai C

$$\text{Terbukti } F(a) \cdot F(c) > 0,$$

$$C = b - \frac{F(b)(b-a)}{F(b)-F(a)}$$

maka akan selanjutnya $[c, b]$

$$= 3 - \frac{(-13)(2,3924471)}{(-25,6033)}$$

$$= 1,785242047$$

D Cari nilai $F(c)$

$$\begin{aligned} F(1,785242047) &= -2(1,785242047)^5 + 7(1,785242047)^2 + 9(1,785242047) + 5 \\ &= -11,3794512 + 22,309624165 + 16,067178423 + 5 \\ &= 31,9973514 \end{aligned}$$