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kelas : 37 NUM-C

NIM : 212126

$y = 6e^x - 3 \cos x$

(Tabulasi)

Iterasi 1 :

$$F(-1) = 6 \cdot e^{-1} - 3 \cos -1$$

$$= 6 \cdot 0,367879 - 3 \cdot (0,999848)$$

$$= 2,207279 - 2,999599$$

$$= 0,79227$$

$$F(0) = 6 \cdot e^0 - 3 \cos 0$$

$$= 6.1 - 3(1)$$

$$= 6 - 3$$

$$= 3$$

Iterasi 2 :

$$F(-0.9) = 6 \cdot e^{-0.9} - 3 \cos -0.9$$

$$= 6 \cdot 0,40657 - 3 (0,999877)$$

$$= 2,43942 - 2,999613$$

$$= -0,560193$$

$$F(-0,8) = 6.8^{-0.8} - 3 \cos -0,8$$

$$= 0,6 \cdot 0,449329 - 0^3 (0,999903)$$

$$= 2,695974 - 2,999709$$

$$= -0,30373$$

$$F(-0,7) = 6 \cdot e^{-0,7} - 3 \cos -0,7$$

$$= 6 \cdot 0,496585 - 3(0,999925)$$

$$= 2,97951 - 2,999775 = -0,020265$$

$$F(-0,6) = 6 \cdot e^{-0,6} - 3 \cos - 0,6$$

$$= 6 \cdot 0,548812 - 3(0,999945)$$

$$= 3,292872 - 2,999835$$

$$= 0.293084$$

Iterasi 3:

$$F(-0,69) = 6 \cdot e^{-0,69} - 3 \cos - 0,69$$

$$= 6 \cdot 0,501576 - 3(0,999927)$$

$$= 3,009456 - 2,999781$$

$$= 0.009674$$

Iterasi 4:

$$F(-0,699) = 6 \cdot e^{-0,699} - 3 \cos - 0,699$$

$$= 6 \cdot 0,497082 - 3 \cdot (0,999926)$$

$$= 2,982492 - 2,999778$$

$$= 0,01728$$

$$F(-0,698) = 6 \cdot e^{-0,698} - 3 \cos - 0,698$$

$$= 6 \cdot 0.497579 - 3(0.999926)$$

$$= 2,985474 - 2,999778$$

$$= -0,0143$$

$$F(-0,697) = 6 \cdot e^{-0,696} - 3 \cos - 0,696$$

$$= 6 \cdot 0,498578 - 3(0,999926)$$

$$= 2,991456 - 2,99978$$

$$= -0,00832$$

$$F(-0,695) = 6 \cdot e^{-0,695} - 3 \cos - 0,695$$

$$= 6 \cdot 0,499074 - 3(0,999926)$$

$$= 2,994444 - 2,99978$$

$$= -0,005336$$

$$F(-0,694) = 6 \cdot e^{-0,694} - 3 \cos -0,694$$
$$= 6.0,999574 - 3(0.999927)$$
$$= 2,99794 - 2.999781$$
$$= -0,00234$$
$$F(-0,693) = 6 \cdot e^{-0,693} - 3 \cos -0,693$$
$$= 6.0,500074 - 3(0,999927)$$
$$= 3,000444 - 2.999781$$
$$= 0,000661$$

=6*EXP(J15)-3*COS(RADIANS(J15))

y=6*e^x-3cosx

x	y		x	y	abs.error	keterangan	x	y	abs.error	keterangan	x	y	abs.error	keterangan
-5	-2.94816		-1	-0.79227	0.792266	FALSE	-0.7	-0.02026	0.020264	FALSE	-0.7	-0.02026	0.020264	FALSE
-4	-2.8828		-0.9	-0.56021	0.560212	FALSE	-0.69	0.009674	0.009674	FALSE	-0.699	-0.01728	0.017284	FALSE
-3	-2.69717		-0.8	-0.30373	0.303734	FALSE	-0.68	0.039913	0.039913	FALSE	-0.698	-0.0143	0.014301	FALSE
-2	-2.18616		-0.7	-0.02026	0.020264	FALSE	-0.67	0.070457	0.070457	FALSE	-0.697	-0.01131	0.011314	FALSE
-1	-0.79227		-0.6	0.293034	0.293034	FALSE	-0.66	0.101307	0.101307	FALSE	-0.696	-0.00832	0.008325	FALSE
0	3		-0.5	0.639298	0.639298	FALSE	-0.65	0.132468	0.132468	FALSE	-0.695	-0.00533	0.005333	FALSE
1	13.31015		-0.4	1.021993	1.021993	FALSE	-0.64	0.163942	0.163942	FALSE	-0.694	-0.00234	0.002337	FALSE
2	41.33616		-0.3	1.44495	1.44495	FALSE	-0.63	0.195732	0.195732	FALSE	-0.693	0.000661	0.000661	TRUE
3	117.5173		-0.2	1.912403	1.912403	FALSE	-0.62	0.227842	0.227842	FALSE	-0.692	0.003662	0.003662	FALSE
4	324.5962		-0.1	2.429029	2.429029	FALSE	-0.61	0.260275	0.260275	FALSE	-0.691	0.006667	0.006667	FALSE
5	887.4904		-1.4E-16	3	3	FALSE	-0.6	0.293034	0.293034	FALSE	-0.69	0.009674	0.009674	FALSE

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