

Mathcad - [Untitled.2]

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$t := 0.1..35$

$$T(t) = -15 \exp(-0.21972 \cdot t) + 25$$

$T(t) =$

24.138
24.308
24.444
24.554
24.642
24.713
24.769
24.815
24.851
24.881
24.904
24.923
24.938
24.95
24.96
...

Calculator

sin	cos	tan	ln	log
nl				
e^x	$\frac{1}{x}$	()	x^2	x^y
π	7	8	9	/
$\frac{1}{x}$	4	5	6	\times
+	1	2	3	+
$\frac{1}{x}$.	0	-	∞

Graph

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AUTO NUM Page 1

9:23 AM
27/04/2020

Amo Ayibadesuyefa John

(18/04/2020)

3 (end)

$$1.) T_1 = 0^\circ\text{C} \quad T_2 = 20$$

i.e $T_2 - T_1 = 10^\circ\text{C}$ at 5 mins

5 mins = 10°C

x mins = 4.9°C

$5 \times 4.9 = 10x$

$$24.5 = 10x$$

$$x = \frac{24.5}{10}$$

10

$$x = 2.45$$

10°C to 24.9°C

$$5 + 2.45 = 7.45 \text{ mins}$$