

Mathcad - [Problem_2.xmcdz]

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Reference Tables

Given

$$T_1(x,t) = 1.273 \cdot 10^{-6} \cdot T_{xx}(x,t)$$

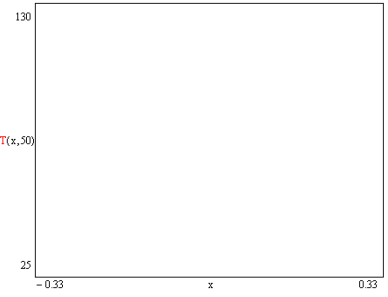
$$T(x,0) = 125$$

$$T_x(0.33,t) = \frac{-200 \cdot (T(0.33,t) - 25)}{5}$$

$$T_x(-0.33,t) = \frac{-20 \cdot (T(-0.33,t) - 25)}{5}$$

$$T := \text{Pdesolve} \left[T, x, \begin{pmatrix} -0.33 \\ 0.33 \end{pmatrix}, t, \begin{pmatrix} 0 \\ 1000 \end{pmatrix}, 1000, 1000 \right]$$

This value must be an integer.



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