

[Transport mechanisms](#)

- [Introduction](#)
- [Molecular diffusion in a medium](#)
- [Transfer across phase boundaries](#)
- [Examples for application](#)
- [Advective and dispersive transport](#)
- [References and links](#)

► [Selftest](#)

► [Problems](#)

- ↓ ● [Problem 1](#)
- ↓ ● [Hint](#)
- ↓ ● [Answer](#)
- ↓ ● [Problem 2](#)
- ↓ ● [Hint](#)
- ↓ ● [Answer](#)
- ↓ ● [Problem 3](#)
- ↓ ● [Answer](#)
- ↓ ● [Problem 4](#)
- ↓ ● **Problem 5**

Problem 5

For calculations of the decline of the mass of a chemical in a compartment due to a diffusion process (see "[Diffusion.xls](#)", sheets [semi-infinite column \(2\)](#)" and [spherical diffusion](#)") one can often find first order kinetics being applied. Is that correct?

Fit the results from "[Diffusion.xls](#)", sheets [semi-infinite column \(2\)](#)" and [spherical diffusion](#)" for an arbitrary case with a log-linear or exponential regression.

