Material: Synthesis of Sections 1.1–1.4

Sections 1.2 and 1.3. Does a solution of the Simple Transport equation also satisfy the Wave Equation?

Can you find another, similar solution of the Wave Equation?

Section 1.3. “The wave equation is time-reversible but the heat equation is not.” What does this statement mean physically? mathematically?

Section 1.4. Discuss the analogy between Fick’s Law and Fourier’s Law.