

Section 13.1. In #2(a), just show that  $u = f(x - vt)$  satisfies the wave equation (1.4). In #3, just show that the magnetic field  $\mathbf{B}$  satisfies the wave equation. (Hint for #3: In Chapter 6, we showed that the electric field  $\mathbf{E}$  satisfies the wave equation.)