

66. In air, light travels at roughly $c = 3.0 \times 10^8$ m/s. Therefore, for $t = 1.0$ ns, we have a distance of

$$d = ct = (3.0 \times 10^8 \text{ m/s}) (1.0 \times 10^{-9} \text{ s}) = 0.30 \text{ m} .$$