

1. Light travels at a speed of $3 \cdot 10^8$ m/sec. [“m” is for “meters.”]
 - (a) A light-year is a unit of length, equal to the distance light travels in one year. How many miles long is one light year?
 - (b) The sun is roughly 93 million miles from the earth [this distance varies a bit throughout the year]. How long does it take light from the sun to reach the earth?
 - (c) How long does it take light to travel 5 light-years?
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2. Begin Problem 4 on page 20.