**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_**

**Physics Review Book-Waves – Periodic Wave, Light Period\_\_\_\_\_\_\_\_\_**

**031220 1225 Class\_\_\_\_\_\_\_\_\_\_**

**SHOW ALL WORK! Place final answer in the space provided including correct significant digits and proper units!**

**Periodic Wave Phenomena RB p156-161, Do #48-71**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 48. Term

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 49.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 50.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 51.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 52.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 53.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 54.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 55. degrees

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 56.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 57.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 58.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 59.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 60.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 61.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 62.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 63.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 64. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 65.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 66.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 67.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 68.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 69.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 70.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 71.

**Light EM Spectrum RB p162-161, Do #72-127.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 72.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 73. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 74.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 75.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 76.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 77.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 78.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 79.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 80. angle

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 81.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 82.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 83.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 84.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 85.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 86.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 87. point

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 88.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 89.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 90. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 91.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 92. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 93. substance

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 94.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 95.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 96.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 97.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 98. point

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 99.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 100.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 101.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 102.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 103.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 104.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 105.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 106.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 107. color

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 108. Work

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 109.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 110.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 111.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 112.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 113. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 114. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 115.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 116. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 117.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 118. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 119.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 120.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 121.

Sketch the diagram.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 122. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 123. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 124. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 125. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 126. Givens and Unknowns:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Substitution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 127. Compare\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_