C: SPEED OF PROP.

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FREQUENCY

$$\frac{1}{2} = \frac{0.01097}{nm} \left( \frac{1}{3^a} - \frac{1}{n^a} \right) = \frac{0.01097}{nm} \left( \frac{1}{9} - \frac{1}{16} \right)$$

$$= \frac{0.01097}{nm} \left( \frac{7}{16} \right)$$