$$v = \sqrt{\frac{T}{\mu}}$$

$$v = \frac{\omega}{k} \qquad \left(\frac{\text{radians/s}}{\text{radians/m}}\right)$$

$$\omega = (2\pi \text{ radians})\, f$$

$$k = \frac{2\pi \text{ radians}}{\lambda}$$

$$v = \frac{2\pi f}{2\pi/\lambda} = f\lambda$$