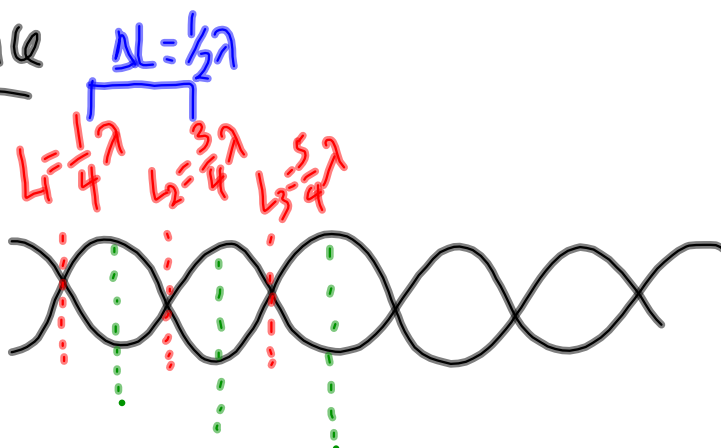


# Resonance

Closed:



Open

$L_1 = \frac{1}{2}\lambda$     $L_2 = \frac{2}{2}\lambda$     $L_3 = \frac{3}{2}\lambda$

$\Delta L = \frac{1}{2}\lambda$

Closed

$$L_n = (2n-1) \frac{\lambda}{4}$$

\*  $f_n = (2n-1)f_1$

Open

$$L_n = n \frac{\lambda}{2}$$

\*  $f_n = n f_1$

