

$$d'où: \omega_{\pm}^2 = \frac{(c_1 + c_2) \pm (c_1 - c_2)}{m}$$

$$\omega_{+}^2 = \frac{c_1 + c_2 + c_1 - c_2}{m} = 2 \frac{c_1}{m}$$

$$\omega_{+} = \sqrt{2 \frac{c_1}{m}} \quad (1)$$

$$et \quad \omega_{-}^2 = \frac{c_1 + c_2 - c_1 + c_2}{m} = 2 \frac{c_2}{m}$$

$$\omega_{-} = \sqrt{2 \frac{c_2}{m}} \quad (1)$$

$$c_1 > c_2 \quad d'où \quad \sqrt{2 \frac{c_1}{m}} > \sqrt{2 \frac{c_2}{m}}$$

