use $\cos(x) = \frac{e^{jx} + e^{-jx}}{2}$

$$3\cos(800\pi t - \pi/3) + 2\cos(800\pi t - \pi/4)$$

$$3\left(\frac{e^{j(800\pi t - \pi/3)} + e^{-j(800\pi t - \pi/3)}}{2}\right) + 2\left(\frac{e^{j(800\pi t - \pi/4)} + e^{-j(800\pi t - \pi/4)}}{2}\right)$$

$$\frac{3}{2}\left(e^{-j\pi/3} e^{j800\pi t} + e^{j\pi/3} e^{-j800\pi t}\right) + \left(e^{-j\pi/4} e^{j800\pi t} + e^{j\pi/4} e^{-j800\pi t}\right)$$

~~freq are all 50~~

all ω_0 are 800π → $f = 400$

Add all amplitudes → $\frac{3}{2} + \frac{3}{2} + 1 + 1 = 5$