## Name: Sergio Montoya

$$\begin{cases} \frac{0.125H_0k_z\mu\omega\left(\frac{a^4n^3\pi\sin\left(\frac{2bm\pi}{a}\right)}{2}+a^3bmn^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{8}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{8}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{8}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{8}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{2}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{2}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}+\frac{bm}{a}\right)\right)\right)}{2}-\frac{a^2b^2mn\pi\left(m\sin\left(\frac{2bm\pi}{a}\right)+n\sin\left(\frac{2an\pi}{b}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-ab^3m^3\pi^2-\frac{a^3bn^2\left(an^3m^2\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(\cos\left(2\pi\left(\frac{an}{b}-\frac{bm}{a}\right)\right)-ab^3m^3\pi^2-\frac{a^3bn^2\left(an^3m^2\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(an^3m^2\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(an^3m^2\right)}{2}+ab^3m^3\pi^2-\frac{a^3bn^2\left(an^3m^2\right)}{2}+ab^3m^3\pi^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^3m^3\pi^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^3\pi^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^3m^3m^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^3m^3m^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^3m^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^3m^2-\frac{a^3m^2\left(an^3m^2\right)}{2}+ab^3m^2+ab^3m^2$$

$$\begin{cases} \frac{0.25H_0k_z\mu n\omega\pi\left(an\pi - \frac{b\sin\left(\frac{2an\pi}{b}\right)}{2}\right)}{bh^4} & \text{for } \frac{n\pi}{b} \neq 0\\ 0 & \text{otherwise} \end{cases}$$

$$\begin{cases} \frac{0.25H_0k_zm\mu\omega\pi\left(-\frac{a\sin\left(\frac{2bm\pi}{a}\right)}{2}+bm\pi\right)}{ah^4} & \text{for } \frac{m\pi}{a} \neq 0\\ 0 & \text{otherwise} \end{cases}$$