$$\int_0^{0.4\cdot \sin\left(8.415\cdot\frac{\pi}{180}\right)} \left(\frac{2\cdot d\cdot so}{r\left(1-\cos(x)\right)+2\cdot so}\right)\cdot\left(r+\frac{so}{2}-r\left(\cos(x)\right)\right)\cdot r\left(\cos(x)\right)$$

El valor de d=2.329; so=0.019; r=0.4

$$\int_0^{0.4\cdot \sin\left(8.415\cdot\frac{\pi}{180}\right)} \left(\frac{2\cdot 2.329\cdot 0.019}{0.4\left(1-\cos(x)\right)+2\cdot 0.019}\right)\cdot \left(0.4+\frac{0.019}{2}-0.4\left(\cos(x)\right)\right)\cdot 0.4\left(\cos(x)\right)|$$

La otra expresión es:

$$\int_0^{0.4\cdot \sin\left(8.415\cdot\frac{\pi}{180}\right)} \left(r+\frac{so}{2}-r\left(\cos(x)\right)\right)\cdot r\left(\cos(x)\right)$$