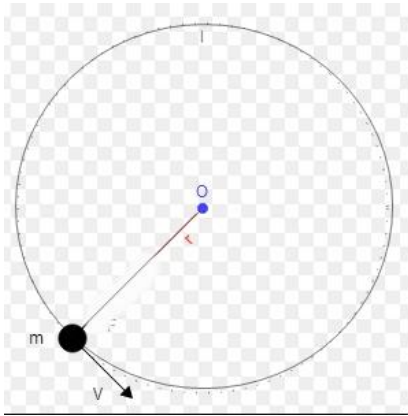# Answer on Question #43384, Physics, Other

Task: assuming that mass m of the stone going a circular path of radius r with velocity v possessing centripetal force, get the expression for the sum assuming that k=1

Answer:

centripetal force $F_c = m\omega^2 r = \dfrac{mv^2}{r}$