

#3

Physics Homework

Name _____

Date _____ Period _____



Show PAWS



1. Convert 248 degrees to radians.
2. Convert 148rpm to radians per second.
3. A stone breaks loose from the tread of a tire. The tire has a radius of 28.5cm. If the stone has a tangential speed of 56m/s, find the rotational speed of the tire.
4. A boy sits on a merry-go-round. He is 4.0m from the center of rotation. If the ride takes 25 seconds to make one revolution, find the boys tangential speed.
5. A bicycle wheel has an angular acceleration of 2.3 rad/s^2 . If the wheel starts from rest and accelerates for 15s, find the final speed in rpm.