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problem a merry go round has an initial angular velocity of 10 2 rpm at the end of the ride the brakes are applied giving it a constant angular deceleration of 0 032 rad s 2 as the ride slows to a stop

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like θ ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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