

### Tutorial #6 – Dynamics of Circular Motion

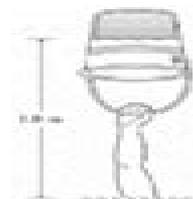
- (K4 Ex8.10mod)
  - What is the maximum speed (in km/h) with which a 1500 kg car can successfully take a highway exit ramp of radius 50 m on a level (unbanked) road in dry conditions without sliding? ( $\mu_s = 1.0$ )
  - How does the maximum speed from Part A. change if the roads are wet? ( $\mu_s = 0.3$ )
  - What is the correct banking angle if a car, traveling at 50 km/h, can take this curve without assistance from friction? (Hint: Use the trigonometric identity  $\tan \theta = \frac{\sin \theta}{\cos \theta}$ )
  - What direction (not magnitude!) is the friction force on a car if it takes the curve at a speed of 70 km/h?

- (K4 Ex8.13mod) Mass  $m_1 = 1.0 \text{ kg}$  on a frictionless table is connected by a string through a hole in the table to a hanging mass  $m_2 = 2.0 \text{ kg}$ . With what angular velocity must  $m_1$  rotate in a circle of radius  $r = 50 \text{ cm}$  if  $m_2$  is to remain hanging at rest?



- (K4 Ex8.17) Communications satellites are placed in circular orbits where they stay directly over a fixed point on the equator as the earth rotates. These are called *geosynchronous orbits*. The altitude of a geosynchronous orbit is  $3.58 \times 10^7 \text{ m}$ .
  - What is the period of a satellite in a geosynchronous orbit? (Use common sense!)
  - Find the value of  $g$  at this altitude. (Full derivation required. Do not use Newton's law of universal gravitation.)
  - What is the weight of a 2000 kg satellite in a geosynchronous orbit?

- (K4 Ex8.22) A student has 65-cm-long arms. What is the minimum angular velocity (in rpm) for swinging a bucket of water in a vertical circle without spilling any? The distance from the handle to the bottom of the bucket is 35 cm. (Hint: This is similar to the minimum speed of a roller coaster.)



- (K4 P8.70) A 500 g steel block rotates on a steel table while attached to a 1.2-m-long hollow tube as shown. Compressed air fed through the tube and ejected from a nozzle on the back of the block exerts a thrust force of 4.0 N perpendicular to the tube. The maximum tension the tube can withstand without breaking is 50 N. If the block starts from rest, how many revolutions does it make before the tube breaks? ( $\mu_k = 0.60$ )



Answers: 1) a. 80 km/h, b. 44 km/h, c.  $21^\circ$ , d. Down the ramp. 2) 6.3 rad/s. 3) a. 86,400 s, b.  $0.223 \text{ m/s}^2$ , c. 0 N. 4) 30 rpm. 5) 3.8 rev.

# Challenge Problem Solutions Circular Motion Dynamics

**R Sandford**



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dec 15 2022 this article will provide a brief overview of how to grow tomatoes for kids tomatoes are a member of the solanaceae family which also includes potatoes peppers and eggplants the plant is native to south america and was

introduced to europe in the 16th century tomatoes are now grown in many parts of the world

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lycopersicon esculentum mill tomatoes whole halved vertically and halved horizontally the tomato τᾰμεῖτοϋ or τᾰμα:τοϋ is the edible berry of the plant solanum lycopersicum 1 2 commonly known as the tomato plant the species originated in western south america mexico and central america

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oct 16 2023 kids encyclopedia facts the tomato solanum lycopersicum is a botanical fruit but not a fruit as ordinary people use the word it is shiny and smooth it has many small seeds it is also very good for health most tomatoes are red the tomato is green when it is unripe

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the u s is second to china california and florida grow most commercial tomatoes here tomato juice is ohio s state drink in cold climates tomato plants in a garden die when the frost comes in warm places tomatoes can grow year round a huge tomato plant grows at disney world and sprawls over an area larger than an olympic size swimming

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tomato facts for kids name tomato tomatoes type of food fruit botanically produced from tomato plants total calories 22 medium tomato 123 grams total fat none medium tomato 123 grams total protein 1 gram medium tomato 123 grams total carbohydrates 5 grams medium tomato 123 grams 26 tomato facts for kids

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1 believe it or not tomatoes aren t always red they can be yellow pink purple black and even white 2 found at walt disney world resort florida usa the largest single tomato plant in the world covers an area of 56 73 metres sq that s bigger than an olympic size swimming pool 3 it s thought that tomatoes originally came from peru 4

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check the seed packet plant label or catalog information on the growth habit of a variety indeterminate tomato plants continue to grow taller and set fruits throughout the growing season stopping only when frost finishes them off many of the

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tomatoes are an important crop in the vegetable garden they are actually fruits the fleshy berries of the plant and often referred to as fruiting vegetables there are lots of different varieties you can grow from cherry tomatoes to stripy tomatoes

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tomatoes are the fruit of the tomato plant they originated in the south american andes around the area of modern day peru and was first used as a food by the aztec s in southern mexico because the tomato has seeds and grows from a flowering plant botanically it is classed as a fruit not a vegetable

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23 tomato facts for kids that ll surprise you tomatoes are one of the most popular vegetables in the world they are used in many different dishes from pizza and pasta to salads and soup tomatoes are a good source of vitamins

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and tomato juice are also popular tomatoes are grown in all mild regions of the world they belong to the nightshade family tomato plants generally have many spreading branches the leaves are hairy and have a strong

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