

Centripetal Acceleration - UCM.A1

1. What does the word centripetal mean?

center-seeking

2. Is an object moving in a circle at a constant speed accelerating? Explain.

yes *velocity includes direction*

3. A dog is tied to a post in the ground by a leash of length 2 meters. If the dog runs at a constant velocity of 4 m/s in a circle around the post, find the dog's centripetal acceleration.



$$a_c = \frac{v^2}{r} = \frac{(4 \frac{m}{s})^2}{2m} = \frac{16 \frac{m^2}{s^2}}{2m} = \boxed{8 \frac{m}{s^2}}$$

toward the center



4. A centrifuge spins blood at a velocity of 30 m/s in a circle of diameter 0.1 meter. Find the centripetal acceleration of the blood.

$$a_c = \frac{v^2}{r} = \frac{(30 \frac{m}{s})^2}{0.1m} = \frac{900 \frac{m^2}{s^2}}{0.05m} = \boxed{18000 \frac{m}{s^2}}$$

toward center

5. A fighter jet flies in a horizontal circle of radius 20 km as part of a defense patrol. If the jet's speed is 300 m/s, what is the centripetal acceleration of the jet?

$$\frac{20 \text{ km}}{1} \times \frac{1000 \text{ m}}{1 \text{ km}} = 20,000 \text{ m}$$

$$a_c = \frac{v^2}{r} = \frac{(300 \frac{m}{s})^2}{20,000m} = 4.5 \frac{m}{s^2}$$

toward the center

6. A toy train makes 16 revolutions around a circular path of radius 0.8 meter in one minute. Find the speed of the train as well as its centripetal acceleration.

$$v = \frac{d}{t} = \frac{16(2\pi(0.8))}{60s} = 1.34 \frac{m}{s}$$

$$a_c = \frac{v^2}{r} = 2.25 \frac{m}{s^2}$$



Answer Key To Unit Uniform Motion Worksheet 8

J Rink



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Physics Handbook Gravitation and Motion Chandan Sengupta, This book is meant for aspirants having eagerness to prosper in the field of Science and Technology by securing their admission in any of the streams For that purpose they have to gain some additional mastery on skills of specific types to make them competent enough in solving various types of problems This book deals with following specific sub themes 1 Laws of Motion 2 Motion in one and two dimensions 3 Motion in Three Dimensions 4 Laws of Gravity 5 Rigid bodies and rotation Several other sub themes can have their presence in the middle as per the consideration of the need of content area **Data Sources** ,2000

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In a world inundated with displays and the cacophony of fast connection, the profound power and emotional resonance of verbal art frequently diminish in to obscurity, eclipsed by the continuous assault of sound and distractions. Yet, nestled within the musical pages of **Answer Key To Unit Uniform Motion Worksheet 8**, a captivating function of fictional splendor that impulses with natural emotions, lies an unique trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that magical opus instructions readers on a mental odyssey, lightly revealing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is main subjects, dissect its charming writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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