

**MULTIPLE CHOICE
PRACTICE PROBLEMS**

1. D A wheel spinning at 3 m/s uniformly accelerates to 6 m/s in 4 s. Its radius is 20 cm. How far around the wheel will a speck of dust travel during that interval?
- A) 6 m
B) 9 m
C) 12 m
D) 18 m
E) 30 m

Ans. $a = \frac{v - v_0}{t} = \frac{6 \text{ m/s} - 3 \text{ m/s}}{4 \text{ s}} = 3/4 \text{ m/s}^2$
 $v^2 = v_0^2 + 2a\Delta x$
 $(6 \text{ m/s})^2 = (3 \text{ m/s})^2 + 2(3/4 \text{ m/s}^2)x$
 $36 = 9 + 3/2x$
 $27 = 3/2x$
 $18 \text{ m} = x$
 The radius is not relevant.

2. B If an object of radius 3 m that experiences a constant angular acceleration starting from rest, rotates 10 rads in 2 s, what is its angular acceleration?
- A) 2.5 rad/s²
B) 5 rad/s²
C) 7.5 rad/s²
D) 10 rad/s²
E) 15 rad/s²

Ans. $\theta = \theta_0 + \omega_0 t + \frac{1}{2}\alpha t^2$
 $10 \text{ rad} = 0 \text{ rad} + (0 \text{ rad/s})(2 \text{ s}) + \frac{1}{2}\alpha(2 \text{ s})^2$
 $10 = \frac{1}{2}\alpha(2 \text{ s})^2$
 $10 = 2\alpha$
 $5 \text{ rad/s}^2 = \alpha$



3. B A bicycle moves at constant speed over a hill along a smoothly curved surface as shown above. Which of the following best describes the directions of the velocity and the acceleration at the instant it is at the highest position?
- A) The velocity is towards the right of the page and the acceleration is towards the top of the page.
B) The velocity is towards the right of the page and the acceleration is towards the bottom of the page.
C) The velocity is towards the right of the page and the acceleration is towards the bottom right of the page.

- D) The velocity is towards the right of the page and the acceleration is towards the top right of the page.
E) The velocity is towards the top right of the page and the acceleration is towards the bottom right of the page.

Ans. Since the bike is moving at **constant speed**, we don't have to worry about **tangential acceleration** (a_T). The only acceleration is a_c , the **centripetal acceleration**.



QUICK REVIEW. The **net force** on the bike will be the **difference** of the **downwards** and **upward** forces acting on the bike. The **upward** force is F_N . The **downwards** force is F_g .

$\Sigma F_{\text{net}} = m \cdot a = m \cdot a_c = F_g - F_N$ (assuming down is +)
 Since $a_c = \frac{v^2}{r}$ and $F_g = m \cdot g$, substituting:

$$m \cdot \frac{v^2}{r} = m \cdot g - F_N$$

What is the maximum velocity the bike could go so as to not lose contact with the hill? Assuming a circular hill, we make the contact force (F_N) between the hill and the bike minimum at this maximum speed. So

$$m \cdot \frac{v^2}{r} = m \cdot g - F_N$$

$$m \cdot \frac{v^2}{r} = m \cdot g - (0)$$

$$m \cdot \frac{v^2}{r} = m \cdot g$$

$$\frac{v^2}{r} = g$$

$$v = \sqrt{r \cdot g}$$

If the bike was not moving at **constant speed** around the circle, then the answer would have been C, since you would have not only the **centripetal acceleration**, a_c , but also the **tangential acceleration**, a_T .



Conceptual Physics Practice Page 41 Key Rotational Motion Torques

Wenbin Ji



Conceptual Physics Practice Page 41 Key Rotational Motion Torques:

The book delves into Conceptual Physics Practice Page 41 Key Rotational Motion Torques. Conceptual Physics Practice Page 41 Key Rotational Motion Torques is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Conceptual Physics Practice Page 41 Key Rotational Motion Torques, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 5: Conclusion
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web after completing the transcription modeling procedure summarize what you have learned by explaining how a gene directs the synthesis of an mrna molecule include in your explanation the words and phrases base pairing rule complementary nucleotides cytoplasm dna gene messenger rna nucleotide nucleus and rna polymerase

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web transcription is an essential step in using the information from genes in our dna to make proteins proteins are the key molecules that give cells structure and keep them running blocking transcription with mushroom toxin causes liver failure and death because no new rnas and thus no new proteins can be made 2

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web proteins and of rna molecules involved in protein synthesis gene expression the process by which dna directs protein synthesis includes two stages called transcription and translation concept 17 1 genes specify proteins via transcription and translation the study of metabolic defects provided evidence that genes specify proteins

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web structure thus a gene determines primary structure and primary structure determines shape and shape answer key name key ch 14 gene expression from gene to protein key concepts genes specify proteins via transcription and translation transcription is the