

Video - What is circular motion?

Diagramming circular motion

The "F" Word

Solving Problems w/ circular acceleration

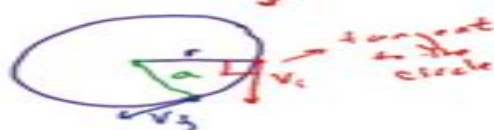
| DATE | HOMEWORK |
|-------|---------------------------------|
| 11/10 | Video: Centripetal Acceleration |
| 11/12 | Video: Circular Speed |

| Video Questions |
|---|
| How does this motion differ from the motion we have worked with previously? |
| How is this motion similar to the motion we have worked with previously? |

Uniform Circular Motion

- Defy gravity?
- Stay on one path
- Follows a center point
- Centripetal Force \rightarrow Force pushes center
- Gravity?
- Push out? (F word)

Velocity \rightarrow Vector \rightarrow magnitude
 \rightarrow direction



The "F" word \Rightarrow ~~Centrifugal~~



$$\bar{a} = \frac{V_f - V_i}{t} = \frac{V_f + (-V_i)}{t}$$



Acceleration points toward the center.
 Centripetal acceleration

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



$v = 15 \text{ m/s}$
 $r = 10 \text{ m}$
 $a_c = \frac{v^2}{r}, a_c = \frac{(15 \text{ m/s})^2}{10 \text{ m}}$
 $a_c = 22.5 \text{ m/s}^2$



$a_c = 2.5 \text{ m/s}^2$
 $v = ?$

$$2.5 \text{ m/s}^2 = \frac{v^2}{10 \text{ m}}$$

$$25 \text{ m}^2/\text{s}^2 = v^2$$

$v = 5 \text{ m/s}$



$a_c = 6.2 \text{ m/s}^2$
 $v = 20 \text{ km/hr}$
 $r = ?$

$$\frac{20 \text{ km}}{\text{hr}} \cdot \frac{10^3 \text{ m}}{1 \text{ km}} \cdot \frac{1 \text{ hr}}{60 \text{ min}} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \div$$

$$= 5.56 \text{ m/s}$$

$r = 4.91 \text{ m}$

Uniform Circular Motion Simulation Answer Key

Liying Dong



Uniform Circular Motion Simulation Answer Key:

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