

Video - What is circular motion?

Diagramming circular motion

The "F" Word

Solving Problems w/ circular acceleration

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

Video Questions

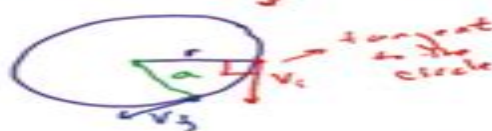
How does this motion differ from the motion we have worked with previously?

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

Hongru Du



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