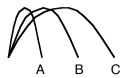
## KEY

## **Projectile Motion Concept Sheet**

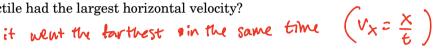
4. Imagine that three different projectiles were launched across a level field. All the projectiles had the exact same maximum height, but they landed in different places. The paths of the projectiles are shown in the diagram to the right.



a. Which projectile was in the air the longest time?

b. Which projectile had the largest initial vertical velocity?

c. Which projectile had the largest horizontal velocity?



d. Which projectile had the largest initial speed?







Which projectile had the largest minimum speed? - a.k.a largest  $V_{\kappa}$ "

5. Imagine that three different projectiles were launched across a level field. All the projectiles landed in the same place, but had different maximum heights. The paths of the projectiles are shown in the diagram to the right.



a. Which projectile was in the air the longest time?

b. Which projectile had the largest initial vertical velocity?

Which projectile had the largest horizontal velocity?

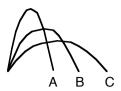
d. Which projectile had the largest initial speed?

e. Which projectile had the largest minimum speed?

A

## **Projectile Motion Concept Sheet**

6. Imagine that three different projectiles were launched across a level field. The projectiles all had different maximum heights and landed in different places. The paths of the projectiles are shown in the diagram to the right.



a. Which projectile was in the air the longest time?

A

b. Which projectile had the largest initial vertical velocity?

Д

c. Which projectile had the largest horizontal velocity?

2

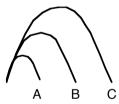
d. Which projectile had the largest initial speed?

not enough information to say

e. Which projectile had the largest minimum speed?

C

7. Imagine that three different projectiles were launched across a level field. The projectiles all had different maximum heights and landed in different places. The paths of the projectiles are shown in the diagram to the right.



a. Which projectile was in the air the longest time?

C

b. Which projectile had the largest initial vertical velocity?

C

c. Which projectile had the largest horizontal velocity?

7

d. Which projectile had the largest initial speed?

1

e. Which projectile had the largest minimum speed?

> not enough information!