PhET Vectors Simulations Lab

Introduction:

A vector quantity is one that has both a magnitude and a direction. For instance, a velocity vector will have a magnitude (24 m/s) and a direction (northeast or 45 degrees). These simulations will demonstrate how the acceleration vector affects the velocity vector and how vectors can be added to produce a resulting vector.

Part I: Vector Simulation

Procedure:

- Go to http://phet.colorado.edu/
- 2. Click the "Play with sims... >" button

Play with sims... >

- From the list on the left, select "Math", then "Applications"
- From the array of applet pictures, select "Motion in 2D"



Motion in 2D

5. Click the "Run Now!" button

Run Now!

Questions:

Make sure the Show both and Stop radio buttons are both selected. Drag the object
around with your mouse and notice the actions of the two vectors. Spend some time
investigating the vectors. Which vector is velocity and which is acceleration and how did
you make your decision? Type your answer in the text box below.

The velocity vector is green and the acceleration vector is blue. I made my decision because the green vector always points in the direction I am moving the object, but the blue vector changes direction when I change the speed of the object.

Phet Vectors Simulations Lab Answers

Guillaume Favre

Phet Vectors Simulations Lab Answers:

Phet Vectors Simulations Lab Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Phet Vectors Simulations Lab Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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