

Practice, Review, and Extend (pp. 4-5)


Students learn an about Newton's second-law concept: that objects' vertical accelerations and velocity components in free space are independent from one another.

Example 1:



Three graphs of a ball's horizontal and vertical velocities collected by the video as it follows the trajectory illustrate their independence from each other.

Example 2:



Three independent motions combining to create the ball's motion cause all its motion equations (what that driver must be careful)

Example 3:



Horizontal velocity motion described with all motion, and acceleration in motion, that vertical acceleration is independent from each other.

$a_x = a_y = g$

From a_x and a_y are known, but the _____
and it is the vertical velocity that _____

Notes:

Three independent motion velocity is still in _____
Three independent motion velocity is still independent from the _____

Ex: In example 1 (above), suppose the ball's velocity (at) at its start of motion was known. Use the video (at) (above) to find the ball's vertical velocity, and then compare the results with the horizontal.

Horizontal	Vertical	Horizontal	Vertical
100			
100			
100			

Precalculus Hs Mathematics Unit 09 Lesson 01

Jin-Ying Zhang



Precalculus Hs Mathematics Unit 09 Lesson 01:

Precalculus Hs Mathematics Unit 09 Lesson 01: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Precalculus Hs Mathematics Unit 09 Lesson 01 : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Precalculus Hs Mathematics Unit 09 Lesson 01 : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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