

Building a Suspension Bridge

Common Core Standard

F.BF.B.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them. Use transformations of functions to find models as students consider increasingly more complex situations.

For F.BF.B.3, note the effect of multiple transformations on a single graph and the common effect of each transformation across function types.

MP1: Make sense of problems and persevere in solving them.

MP2: Reason abstractly and quantitatively.

MP3: Construct viable arguments and critique the reasoning of others.

MP7: Look for and make use of structure.

MP8: Look for and express regularity in repeated reasoning.

Common Core Algebra II, Unit 4

The Task

The Maryland Transportation Authority is in discussion on building a new suspension bridge to connect Maryland's west coast to the eastern shore. This bridge will alleviate traffic on the Chesapeake Bay Bridge as well as allow commuters to get across the bay from another destination. The state has chosen three locations for the proposed bridge, each with a different distance across the water. The three distances are 2.2 miles, 2.55 miles, and 2.8 miles respectively.

This bridge design is similar to that of the Golden Gate Bridge in San Francisco. The bridge will have two towers close to each shore and one suspension in between them. The suspension touches the bridge midway between the towers. Due to ships passing below the bridge, the minimum height of the bridge's midpoint will be 150 feet.

One architect who is designing the bridge wants to use the equation

$y = 0.00001432(x - 6600)^2 + 200$ to model the suspension where y is the height in feet and x is the horizontal distance in feet of the bridge.



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Maryland Ccrg Algebra Task Project

JR Anderson



Maryland Ccrg Algebra Task Project:

The Top Books of the Year Maryland Ccrg Algebra Task Project The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Maryland Ccrg Algebra Task Project : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling 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 crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular 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 Pape, 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 an exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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