

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

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