

Easter Egg Problem



*Use the picture of the Easter Egg found under Extra Credit on the Math Links page.
The red lines are the x- and y-axis. The blue lines are the sides of the triangle.*

The Problem

Find the area of the whole triangle and each of the colored parts(white, purple, orange, and green).

The Information

The sides of the triangle pass through the points $(0,4.5)$, $(5,0)$, and $(0,-5.5)$. The line that makes the side of the triangle that touches both the white and orange sections has an equation of $x=-4$.

The Solution

Your solutions and work must be presented in paragraph form, either typed or neatly handwritten.
Explain all of your steps and why you did them.

The Due Date

April 29, 2014