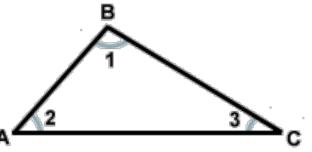
Geometry

Prove the angles of △ABC sum to 180°

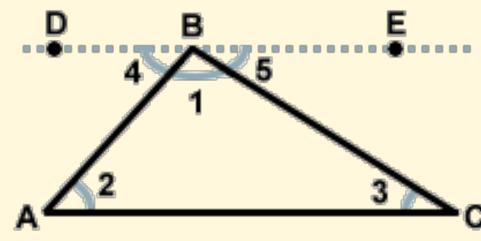




Start by assuming, for contradiction, that the sum is not 180°. We'll introduce a new angle, 44 ...



Draw line DE parallel to AC



∠4 is congruent to ∠2, and ∠5 is congruent to $\angle 3$. $\angle 1$, $\angle 4$, and $\angle 5$ form a straight angle = 180°. So ∠1, ∠2, ∠3 add up to 180°.

Math Function

Is f(x) an convex function?

$$f(x) = 0.14 |x| - 5.09$$

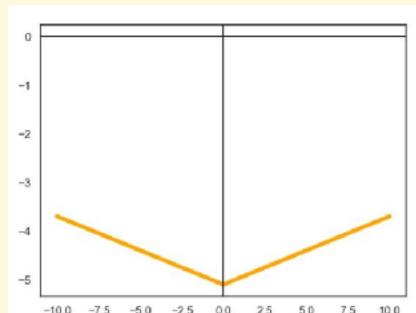


It is convex for x>0 but concave for x<0



SketchPad + GPT-40

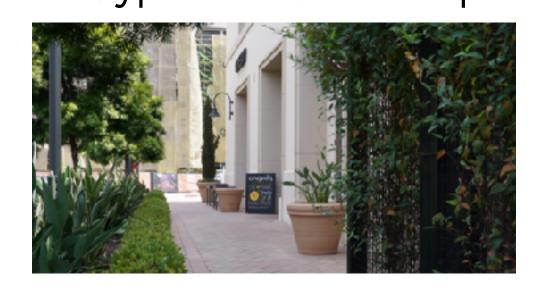




convex because line between any two points lie above the graph.

Visual Search

According to the board, what is the type of the shop?



(GPT-40

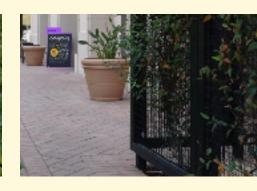
The sign in the image reads "ceremonial matcha,". it's a cafe.



SketchPad + GPT-40









Japan I see a board in patch 2 and 3 and will zoom in



The zoomed-in image shows the text "corepower YOGA". So it's a yoga studio

Spatial Reasoning

Are there cookies stacked on other cookies?





No





SketchPad + GPT-40

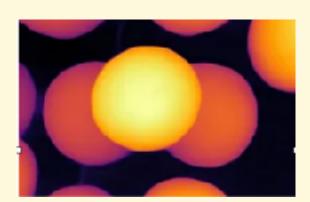


Use segmentation & marking



Cookies 2 and 5 seem to overlap. Need to analyze their depth





Warmer colors indicate closer proximity, suggesting they are stacked on cooler-colored ones.

(C)

(d)