

perimeter of a composite shape

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Higher Math - Calculating the Minimum Perimeter of a Triangle

No triangle exists that minimizes that condition. However, the infimum of the perimeters of all such triangles = twice the distance from (a,b) to the line $y = x$. That's just an application of the triangle inequality after picking the first two points (one is on the line, the other is (a,b)) of any triangle.

Perimeter of Triangle - Math Help Forum

Given a point (a,b) with $0 < b < a$, determine the minimum perimeter of a triangle with one vertex at (a,b), one on the x-axis, and one on the line $y=x$. Thanks!

Perimeter of a circle as a limit of inscribed regular sided polygon

Show that the perimeter P_n of an n-sided regular polygon inscribed in a circle of radius r is $P_n = 2 n r \sin(\pi/n)$ Find the limit of P_n as n approaches ∞ My attempt: The sum of the interior angles is $\pi(n-2)$. If we apply the cosine law to find the length of each side of the n-sided regular polygon we find $c = 2 r \sqrt{2 r^2 \cos(4\pi/n)}$

Norman window problem - Math Help Forum

A Norman window has the shape of a rectangle surmounted by a semicircle. If the perimeter of the window is 38 ft, express the area A of the window as a function of the width x of the window. What I have is $A = \pi(x)/2 + xh$ I know it gives you the 38 ft for a reason. And the fact its highlighted...

Changing dimension in a rectangle - Math Help Forum

so where do i start for this problem? the length l of a rectangle is decreasing at the rate of 2 cm/sec while the width w is increasing at the rate of 2 cm/sec. when $l=12\text{cm}$ and $w=5\text{cm}$, find the rates of change of area, perimeter, and the lengths of the diagonals of the rectangle.

SOLVED - Percentage increase in area of rectangle given increase in ...

One side of a rectangle is three times the other. If the perimeter increases by 2% what is the percentage increase in area?

pre-calculus - Math Help Forum

Hello all! I am having a problem understanding something in my Pre-calculus class. I have always

had trouble with math, so bear with me here ;) Here are a couple of example problems Lee is running around the perimeter of a circular track at a rate of 10 ft/sec. The track has a radius of 100...

Relationship between Area of Square and Rectangle - Math Help Forum

The perimeter of the square has length 160 mm. How much longer is the perimeter of the rectangle than the perimeter of the square? (b) Same question but this time the perimeter of the square is L mm and the long side of the rectangle is x times as long as the short side. You are looking for the difference in perimeters, or $P_r - P_s$.

Surveying Property (Law of Sines) | Math Help Forum

Then did the math, and since it asked for the perimeter I added all 3 sides after I used law of sines to find the sides. Basically I got a really big answer, (the answer is 1425 ft). View attachment 23684 later found out about bearing and did this View attachment 23685 I tried to make sense of it, but the wording really confuses me Click to ...

Use the figure to find the approximate perimeter of RSTU.?

Use the figure to find the approximate perimeter of RSTU. A) 72.5 in. B) 73.6 in. C) 72.0 in. D) 73.0 in. E) 71.8 in. B you have to find the length of the sides first ...