



MATHS

BOOKS - MTG MATHS (BENGALI ENGLISH)

MATHEMATICS (2011)

Descriptive Type Questions

The harmonic mean of two numbers is 4.
Their arithmetic mean A and the geometric

mean G satisfy the relation $2A+G^2=27$.

Find the numbers

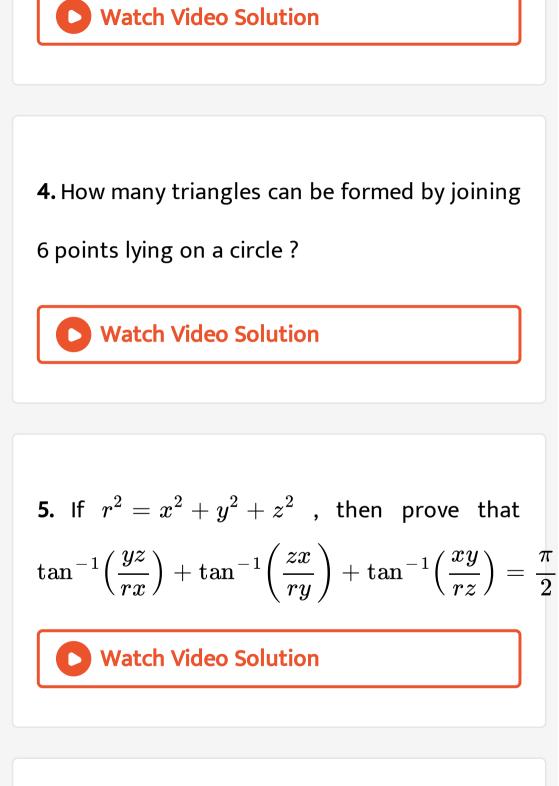


2. If the area of a rectangle is 64 sq. unit, find

the minimum value possible for its perimeter.

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3. Find the image of the point (-8, 12) with respect to the line 4x + 7y + 13 = 0



6. Determine the sum of imaginary roots of the

equation

$$ig(2x^2+x-1ig)ig(4x^2+2x-3ig)=6$$

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7. If $\cos A + \cos B + \cos C = 0$, prove that

 $\cos 3A + \cos 3B + \cos 3C = 12 \cos A \cos B \cos C$



8. Let $\mathbb R$ be the set of real numbers and $f\colon \mathbb R o \mathbb R$ be such that for all $x,y\in R$, $|f(x)-f(y)|^2 \leq (x-y)^3$ Prove that f is a constant function.

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