

All about Triangles



Angles Useful formulas Quick Vocabulary Calculations Blanks words







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Angles for 100.



In an equilateral triangle, there are three ____ sides, and all the angle measures are ____ degrees



equal, 30, 60, 90

equal, 60, 60, 60

unequal, 60, 60, 60

unequal, 30, 60, 90



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Angles for 200.



A triangle with no equal angles is called a(n) ____ triangle



Scalene

Right

Equilateral

Isoceles



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Angles for 300.



The angles of a triangle sum to ____ degrees





360



180

90



240



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Angles for 400.



If a triangle has a 60 degree angle and a 30 degree angle, the third angle measure is this.



180

270

360

90



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Useful formulas for 100.



This theorem can be used on right triangles, typically to calculate the length of the hypotenuse.



Pythagorean theorem

Heron's theorem

Right triangle theorem

Pascal's theorem



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Useful formulas for 200.



How do you calculate an area of a triangle?



2bh

 $\frac{1}{2}(bh)$

 $\frac{1}{2}(2bh)$

(2h)/b



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Useful formulas for 300.

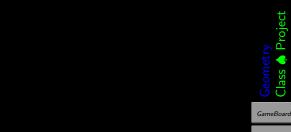


Given that the length of one side of an equilateral triangle is a, the area of the triangle is:









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Useful formulas for 400.



The radius of the incircle of a triangle of area a and perimeter p equals:







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- $a \cdot p/2$
 - $2 \cdot p/a$
 - $2 \cdot a/p$



Quick Calculations for 100.



In a right triangle where one side length is 3 units, second side length is 4 units, the hypotenuse is how long?



2 units

7 units

5 units

6 units



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Quick Calculations for 200.



In a right triangle, side a=6 units, side b=8 units, and hypotenuse = 10. What is the \sin for angle bh called "x"?



 $\sin(x) = 10/8 = 1.25$ $\sin(x) = 6/10 = 0.6$ $\sin(x) = 6/8 = 0.75$

 $\sin(x) = 8/10 = 0.8$



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Quick Calculations for 300.



In an equilateral triangle, each side measures 1 unit. What is the area of the triangle?



 $\sqrt{3}/3$ $\sqrt{3}/4$ $\sqrt{3}$



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Quick Calculations for 400.



In a scalene triangle, the base is 4 units and the height is 6 units. What is the area for this triangle?



12 units

6 units

24 units

18 units



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Fill in the Blanks for 100.



Any side of a triangle will always be ____ than the sum of the other two sides but ____ than the difference of the other two sides.



greater, greater

less, lesser

greater, lesser

less, greater



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Fill in the Blanks for 200.



The Fibonacci sequence can be visualized using a(n)



Equilateral

triangle.

liaterai

Pascal's Isosceles

Bermuda



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Fill in the Blanks for 300.



The sum of two legs of any right triangle equals the sum of the of the circumcircle and incircle.



diameters

radii

tangents

edges



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Fill in the Blanks for 400.

If you know all 3 side lengths of a triangle, we can use to calculate the area.



Pythagorean theorem

Euler's theorem

Heron's formula

fibonacci's formula



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Vocabulary words for 100.



If point D is inside triangle ABC and the areas of triangles ABD, BCD, and CAD are equal, then D is the of triangle ABC.





vertex

android

centroid

endpoint



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Vocabulary words for 200.



If two triangles have three medians equal, respectively, then the triangles are



congruent

incongruent

incognito

complementary



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Vocabulary words for 300.



In any right triangle, the ____ of a right angle divides the angle between the median and the height of the same vertex in two equal angles.



dissector

bisectrix

hypotenuse

base



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Vocabulary words for 400.



If AD and CE are two $_$ of an isosceles triangle ABC (AB = BC), then angle BDE is twice angle ADE (the same holds for angles BED and CED).



centroids

sides

dissectors

bisectors



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