



All about Triangles



Angles

Useful formulas

Quick
Calculations

Fill in the
Blanks

Vocabulary
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

90

360

180

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:

$$a^2 \frac{\sqrt{6}}{3}$$

$$2a \frac{\sqrt{3}}{4}$$

$$2a \frac{\sqrt{6}}{3}$$

$$a^2 \frac{\sqrt{3}}{4}$$



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Useful formulas for 400.



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

$$a \cdot p/2$$

$$2 \cdot p/a$$

$$2 \cdot a/p$$

$$\frac{a^2}{2p}$$



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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?

$$\sqrt{3}/3$$

$$\sqrt{3}/4$$

$$2/\sqrt{3}$$

$$\frac{2 \cdot (\sqrt{3})}{4}$$



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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)
___ triangle.

Equilateral

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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