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Density Property

The property that states that between any two real numbers, there is always another real number.

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exponential form

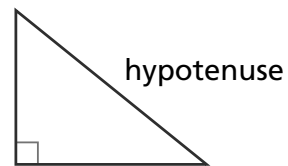
A number is in exponential form when it is written with a base and an exponent.

4^2 is the exponential form for $4 \cdot 4$.

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hypotenuse

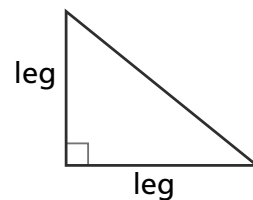
In a right triangle, the side opposite the right angle.



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legs

In a right triangle, the sides that include the right angle; in an isosceles triangle, the pair of congruent sides.



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monomial

A number or a product of numbers and variables with exponents that are whole numbers.

$$3x^2y^4$$

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perfect square

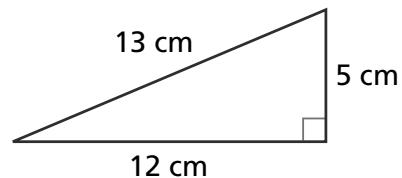
A square of a whole number.

$$5^2 = 25, \text{ so } 25 \text{ is a perfect square.}$$

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Pythagorean Theorem

In a right triangle, the square of the length of the hypotenuse is equal to the sum of the squares of the lengths of the legs.



$$\begin{aligned} 5^2 + 12^2 &= 13^2 \\ 25 + 144 &= 169 \end{aligned}$$

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scientific notation

A method of writing very large or very small numbers by using powers of 10.

$$12,560,000,000,000 = 1.256 \times 10^{13}$$