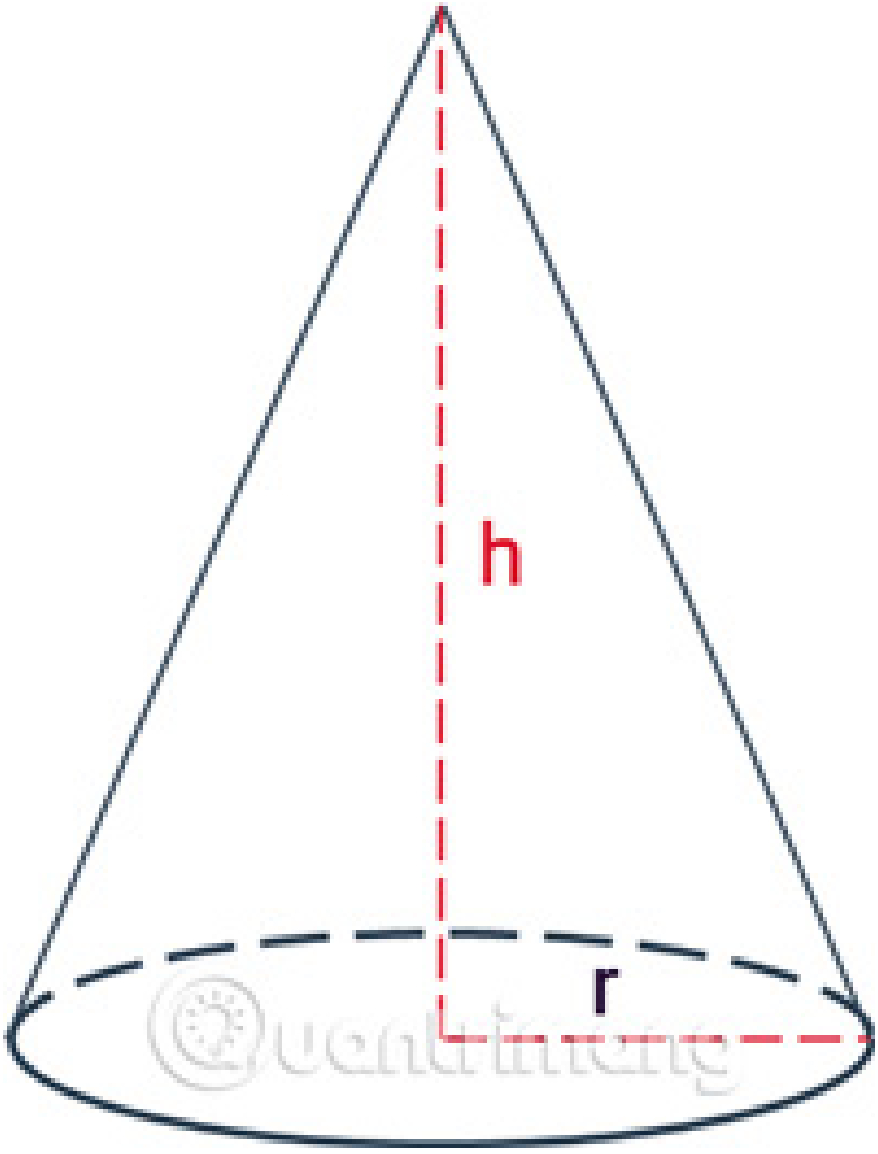
Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone

The pyramid is formed when rotating a right triangle around its axis (a right-angled edge) one round.

In the article below, TipsMake.com will introduce and share details to readers some content related to the formula of calculating cone volume, the surrounding area and the whole cone shape. Please consult with us.

The pyramid is formed when rotating a right triangle around its axis (a right-angled edge) one round.



Calculate cone area

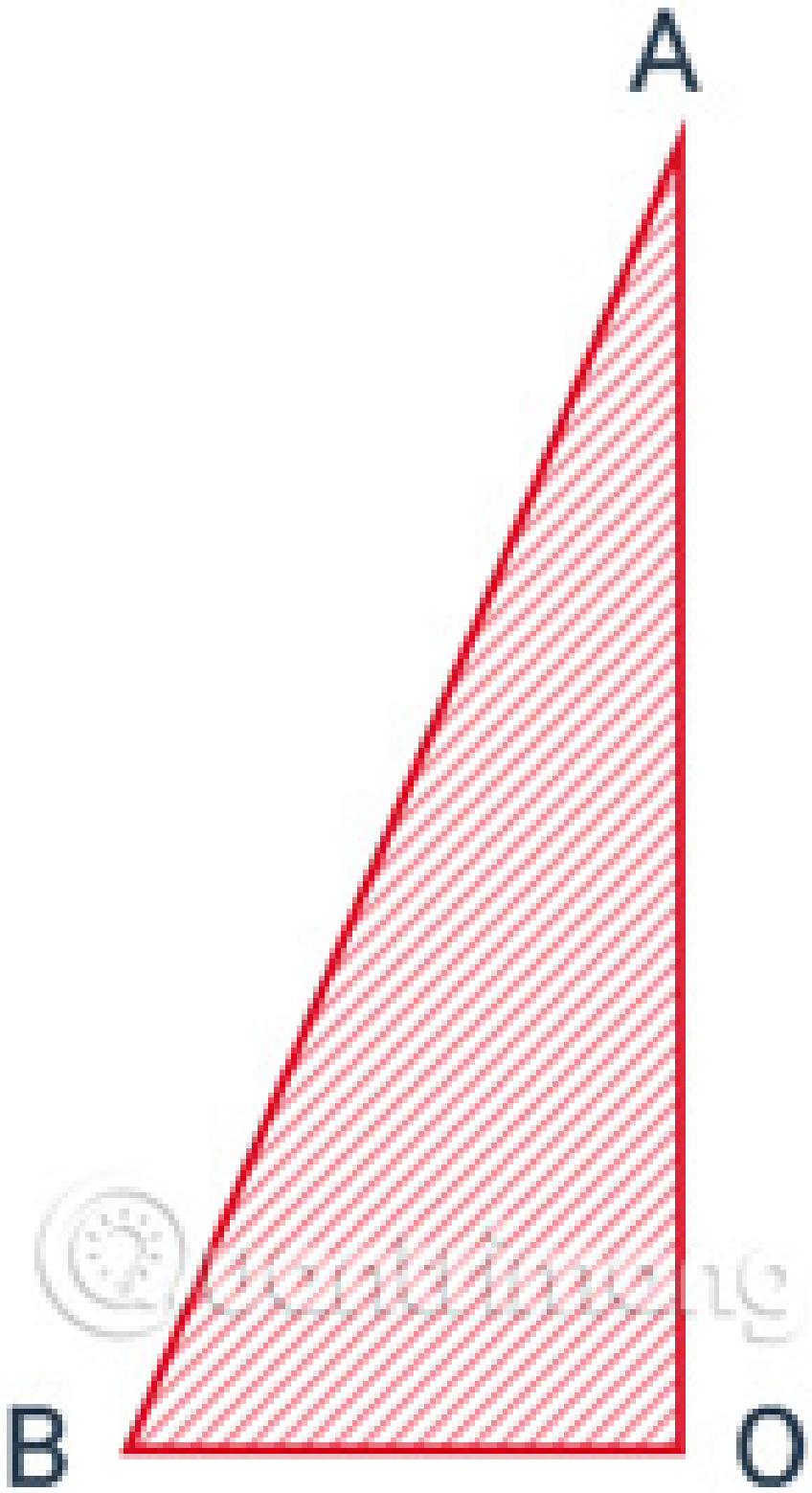
The area of ??a cone is often referred to with two concepts: ambient and full.

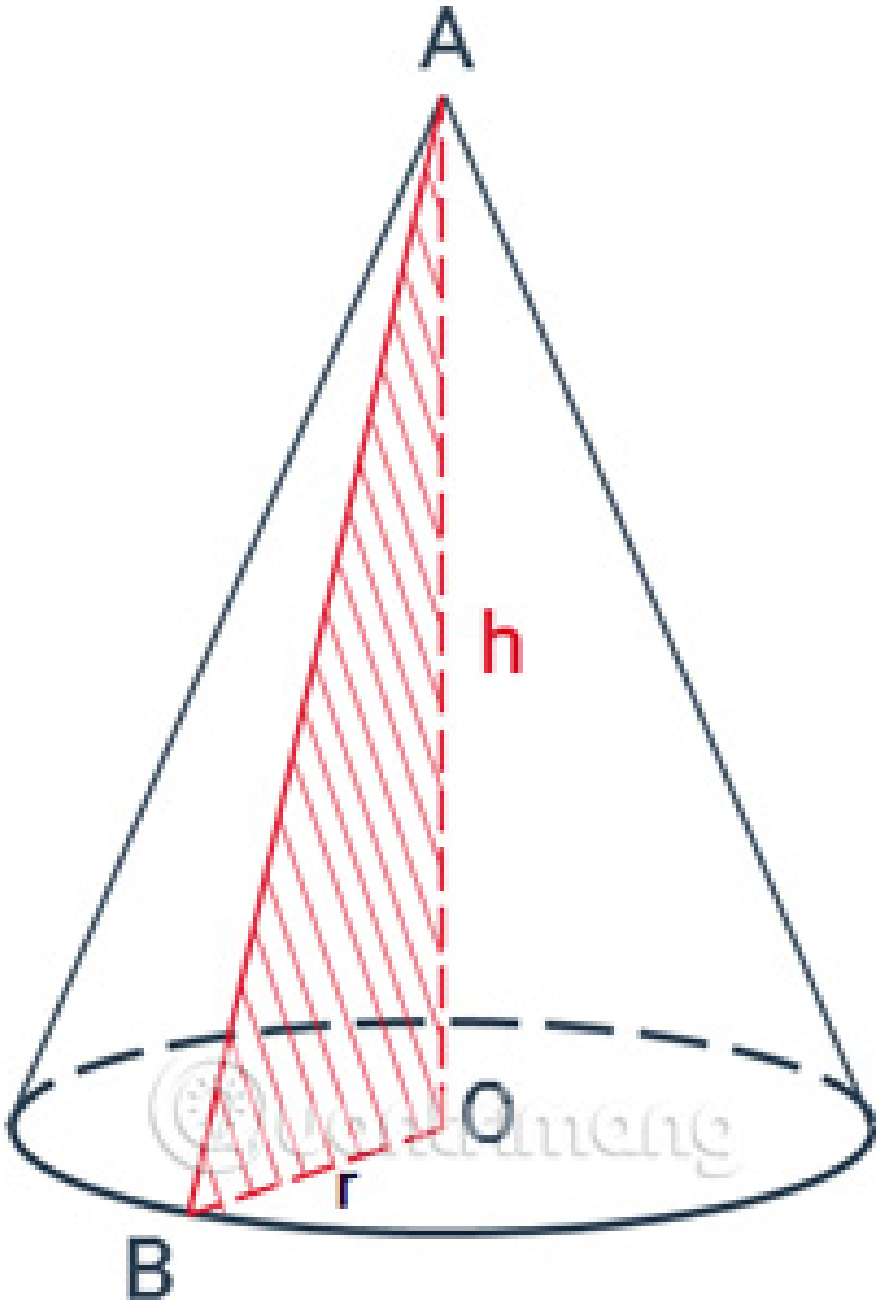
1. **The area around** the cone only includes the area of ??the surrounding surface, surrounding the cone, excluding the bottom area.
2. **The total area** is calculated as the magnitude of the entire occupied space, including the surrounding area and the area of ??the round bottom.

As follows:

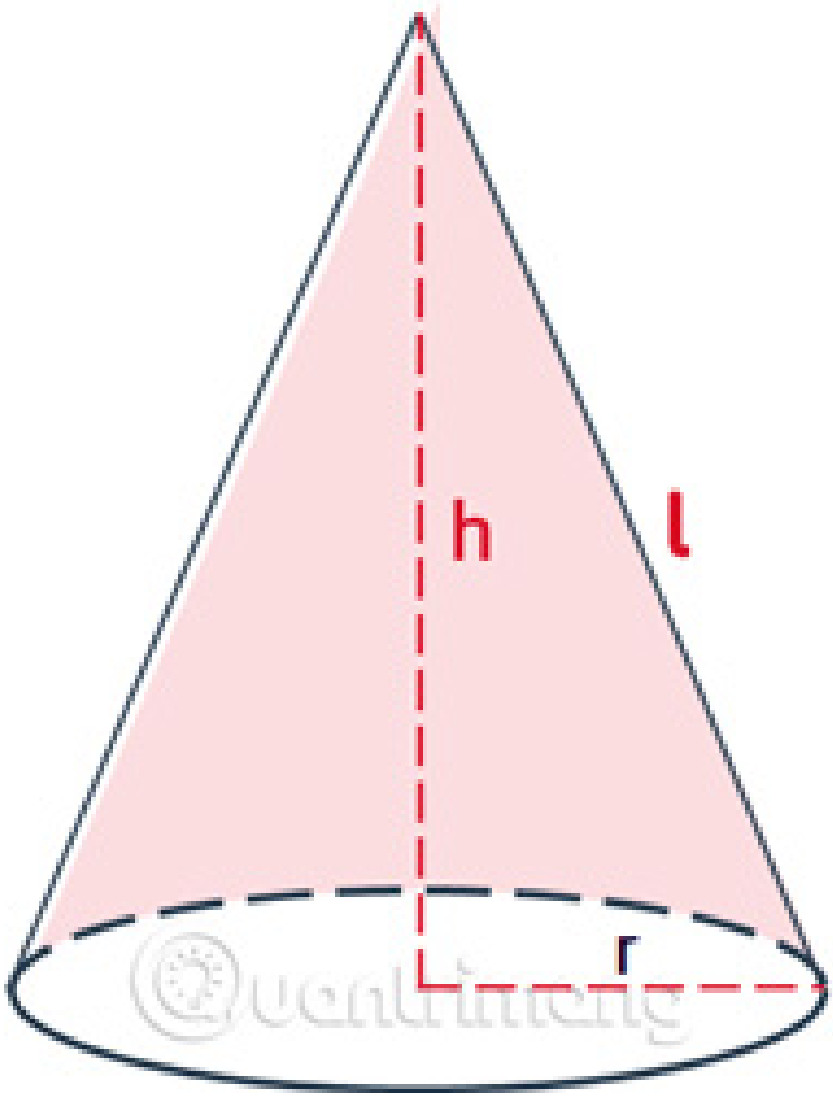
There is a square triangle ABO at O, rotating a circle around a fixed square angle OA is a cone.

1. Next to the OB scan creates the bottom of the cone is a circle of center O.
2. AB edge scans the surrounding face of the cone, each of which is called a birth path, for example AB is a birth path.
3. A is the peak and AO is the height of the cone.


A
B
O



The formula for calculating the surrounding area: is half of the area of ??the bottom circle and the length of the line.



Picture 6 of Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone

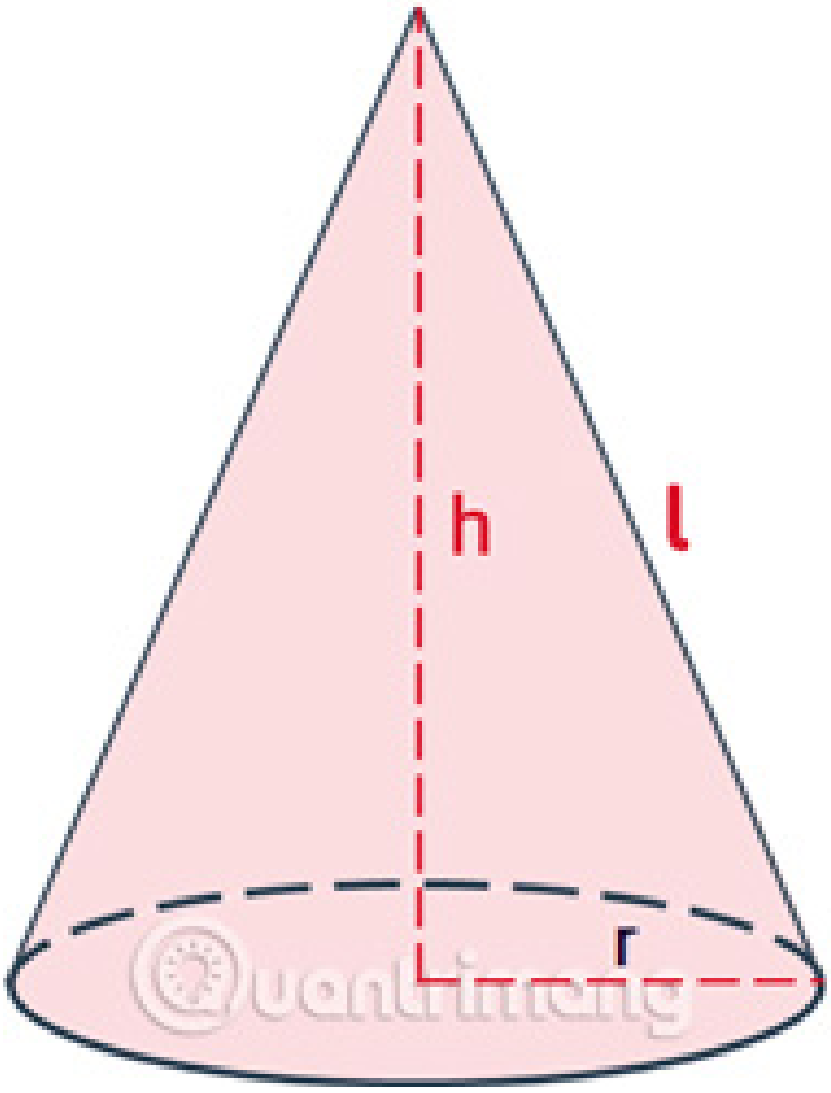
Applying with the specific example above is:

Picture 7 of Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone

Inside:

1. S_{around} is the area around the cone.
2. r is the cone bottom radius.
3. l is the path length of the cone.

The formula for calculating the total area: is equal to the surrounding area plus the area of ??the bottom.



Picture 9 of Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone

Picture 10 of Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone

Calculate cone volume

The cone volume is the amount of space that the cone occupies.

Formula for conical volume: equal to 1/3 of the area of ??the base multiplied by the height

Picture 11 of Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone

Inside:

1. V is cone volume.

2. `r` is the bottom radius of the cone.
3. `h` is the height, the distance between the top and bottom of the cylinder.

Above are the formulas for calculating the area around, analyzing the whole and volume of the cone. Thank you for following the article.

You finished reading the article "**Formula to calculate the area around the cone, the total area of ??the cone, the volume of the cone**" edited by the **TipsMake** team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.
