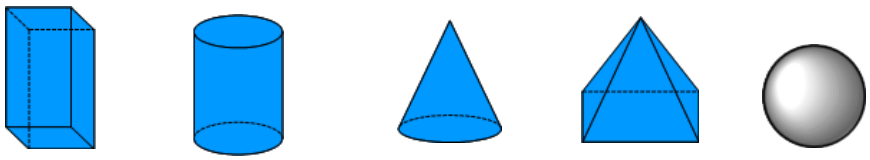
DO NOW - match the shape with its name



(1) (2) (3) (4) (5)

Pyramid 4

Cylinder 2

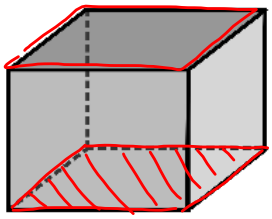
Cone 3

Prism 1

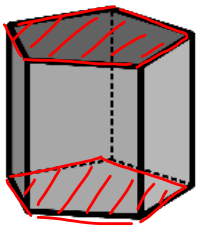
Sphere 5

May 6-1:03 PM

A **prism** is a solid that has two congruent, parallel bases with all other faces being parallelograms.



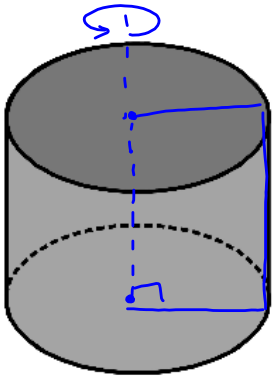
Rectangular Prism



Pentagonal Prism

Mar 5-7:06 AM

A **cylinder** is very similar to a prism, except the base is enclosed by a circle. The most common is a **right circular cylinder.**



What two-dimensional figure, when rotated about one of its sides, would produce a right circular cylinder?

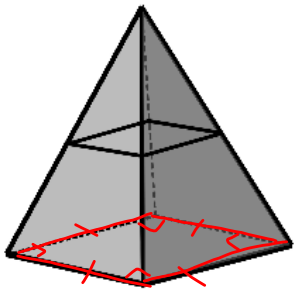
Draw this figure on the cylinder above to illustrate.

Rectangle

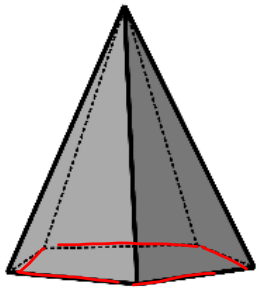
Mar 5-7:08 AM

A **pyramid** is a solid where one face, known as the base, is a polygon and all other faces are triangles that meet at a common vertex.

ONE BASE



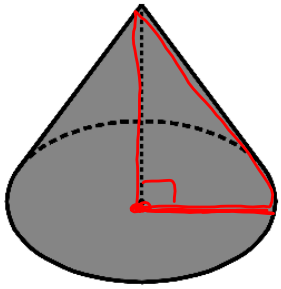
Square Pyramid



Pentagonal Pyramid

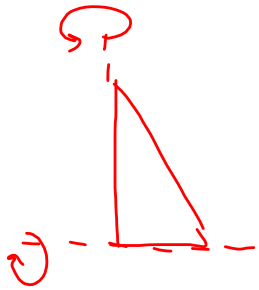
Mar 5-7:09 AM

A **cone** is a shape very similar to a pyramid except that its base is enclosed by circle. The most common cone is a **right circular cone.**



A cone can be produced by rotating what two-dimensional shape around one of its sides? Draw it on the cylinder.

Right Δ



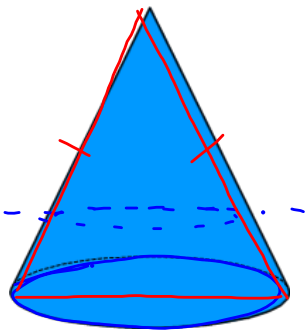
Mar 5-7:10 AM

A **cross section** is the face you obtain by making a "slice" through a solid object. A cross section is two-dimensional.

Given a right circular cone.

a) What is the shape of a cross section parallel to the base of the cone?

Circle

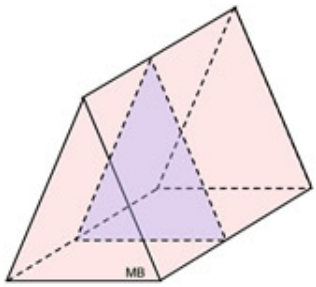


b) What is the shape of a cross section perpendicular to the base of the cone through the vertex of the cone?

Isosceles Δ

Mar 5-8:16 AM

Given a right triangular prism as shown below. A cross section is made parallel to the bases. Which of the following statements is true regarding the area of the cross section and the area of the base?



(1) The area of the cross section is less than the area of the base.

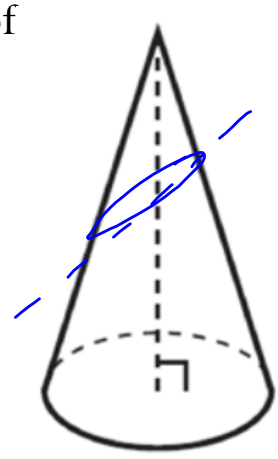
(2) The area of the cross section is greater than the area of the base.

(3) The area of the cross section is equal to the area of the base.

(4) There is insufficient data to determine these area relationships.

Mar 5-8:20 AM

William is drawing pictures of cross sections of the right circular cone below. Which drawing can not be a cross section of a cone?



1)

2)

3)

4)

Mar 5-8:23 AM