Which formula will give you the area of a square:

a.) $A = s^2$

b.) $A = bh$

c.) $A = lw$

d.) $A = (1/2)\, d_1 d_2$

Answer:

all of these

Always, Sometimes, Never

The volume of an oblique pyramid is the same as a right pyramid with the same height.

Answer:

Sometimes

The bases would also need to be the same size

The ratio 500 cm to 20 m simplifies as:

a.) 25:1

b.) 1:25

c.) 5:2

d.) 25 cm : 1 meter

Answer:

d

What type of triangle has sides 7, 10, 14?

a.) Acute

b.) Obtuse

c.) right

d.) there is no such triangle

Answer:

b

The geometric mean of 9 and 100 is what?

Answer:

30

A cylinder and a cone have the same base and height. What is the ratio of their volumes?

Answer:

3:1

If two circles share only 1 common tangent, what will the relationship between these circles be?

Answer:

internally tangent

There are 3 ways to prove triangles similar. Pick out the three that are the correct ways to prove triangles similar?

1.) SSS

2.) ASA

3.) AA

4.) SAS

5.) HL

6.) CPCTC

Answer:

1, 3, 4

If a circle has radius 26 cm and a chord that is 10 cm from the center of the circle, what is the length of this chord?

Answer:

48 cm

If an inscribed angle has measure 72, what is the measure of a central angle that intercepts the same arc?

Answer:

144

The ratio of the volumes of two similar cylinders is 64:27. If the surface area of the larger cylinder is 800 cm., what is the surface area of the smaller cylinder

Answer:

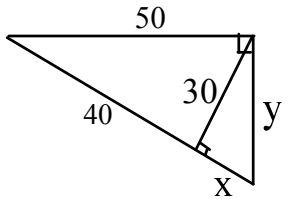
450

The surface area of a sphere is 324π. What is the volume of this sphere?

Answer:

$972\ \pi$

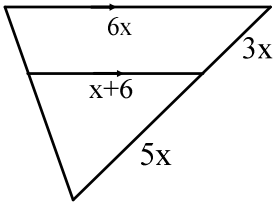
Find the value of x and y.



Answer:

x= 22.5
y= 37.5

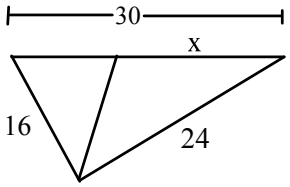
Find the value of x.



Answer:

2.2

Find the value of x.



Answer:

18

sin (40) = cos (x) 50

sin (35) = cos (x) 55

sin (20) = cos (x) 70

without a calculator

sin (57) = cos (x) 23

Always, Sometimes, Never

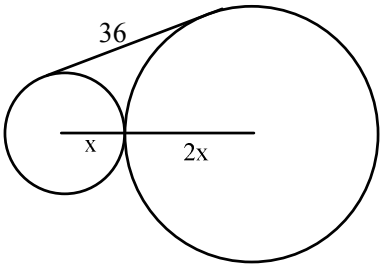
1.) Two octagons are similar.

2.) An obtuse triangle is similar to a right triangle.

3.) An acute triangle is similar to an isosceles triangle.

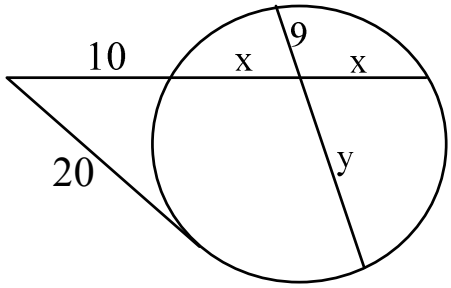
1.) Sometimes
2.) Never
3.) Sometimes

Find the value of x.



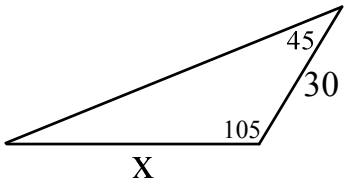
12.7

Find the value of x and y.



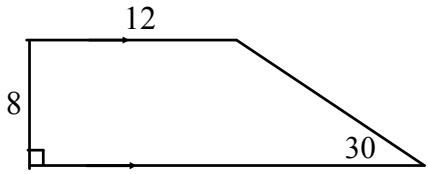
$x = 15$
$y = 25$

Find the value of x



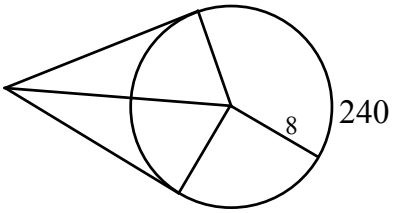
$30\sqrt{2}$

Find the area of the following:



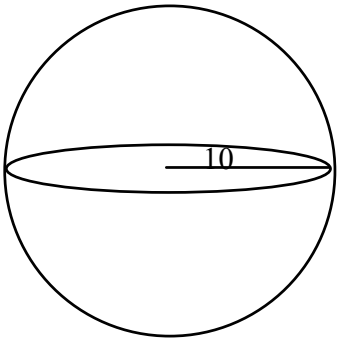
151.4

Find the area between the tangents and the circle.



43.8

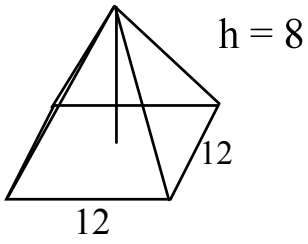
Find the surface area and volume of this sphere:



SA = 1256.6

V = 4188.8

Find the volume



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