Surface Area And Volume Of 3-D Solids Wall Posters

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Surface Area and Volume Formulas For Three-Dimensional Figures

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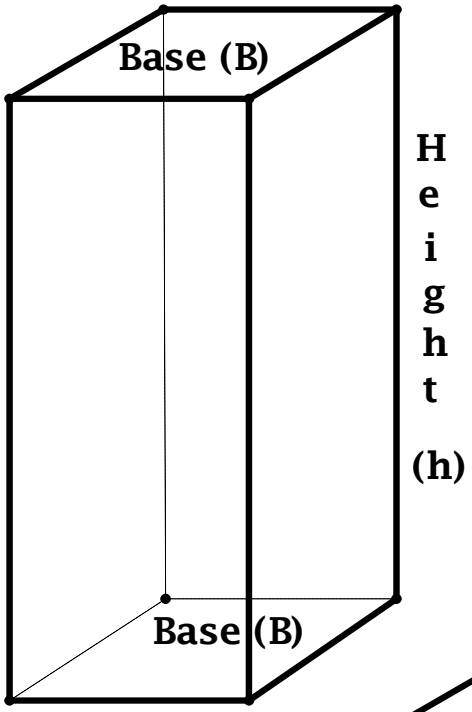
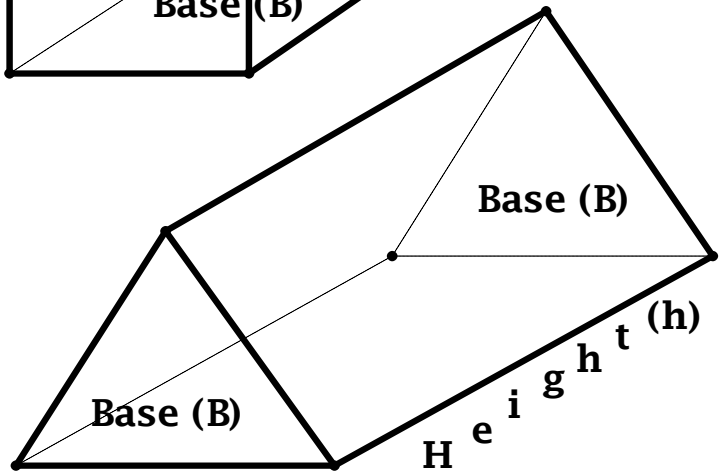
Surface Area and Volume of Prisms





Lateral Area

L.A. = Ph

Surface Area

S.A. = Ph + 2B

Volume

V = Bh

Variables:

P = Perimeter of Base

h = Height of Prism

B = area of Base

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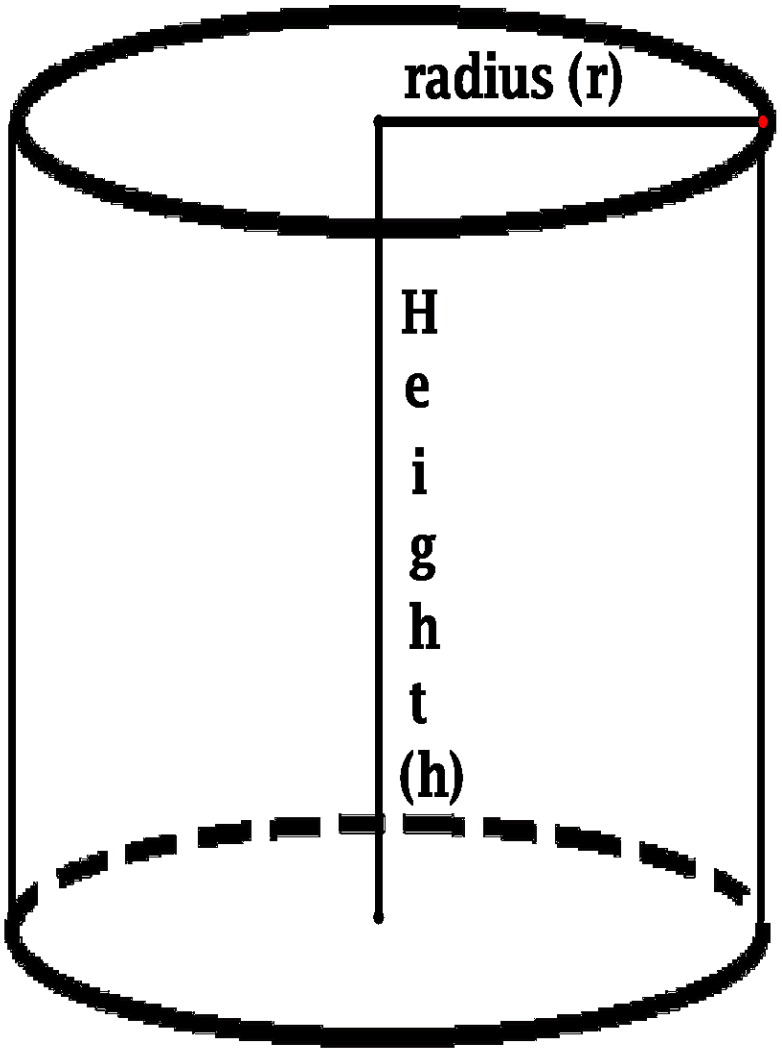
Surface Area and Volume of Cylinders



Lateral Area

$L.A. = 2\pi r h$

Surface Area

$S.A. = 2\pi r h + 2\pi r^2$

Volume

$V = \pi r^2 h$

Variables:

h = Height of Cylinder

r = Radius of Base

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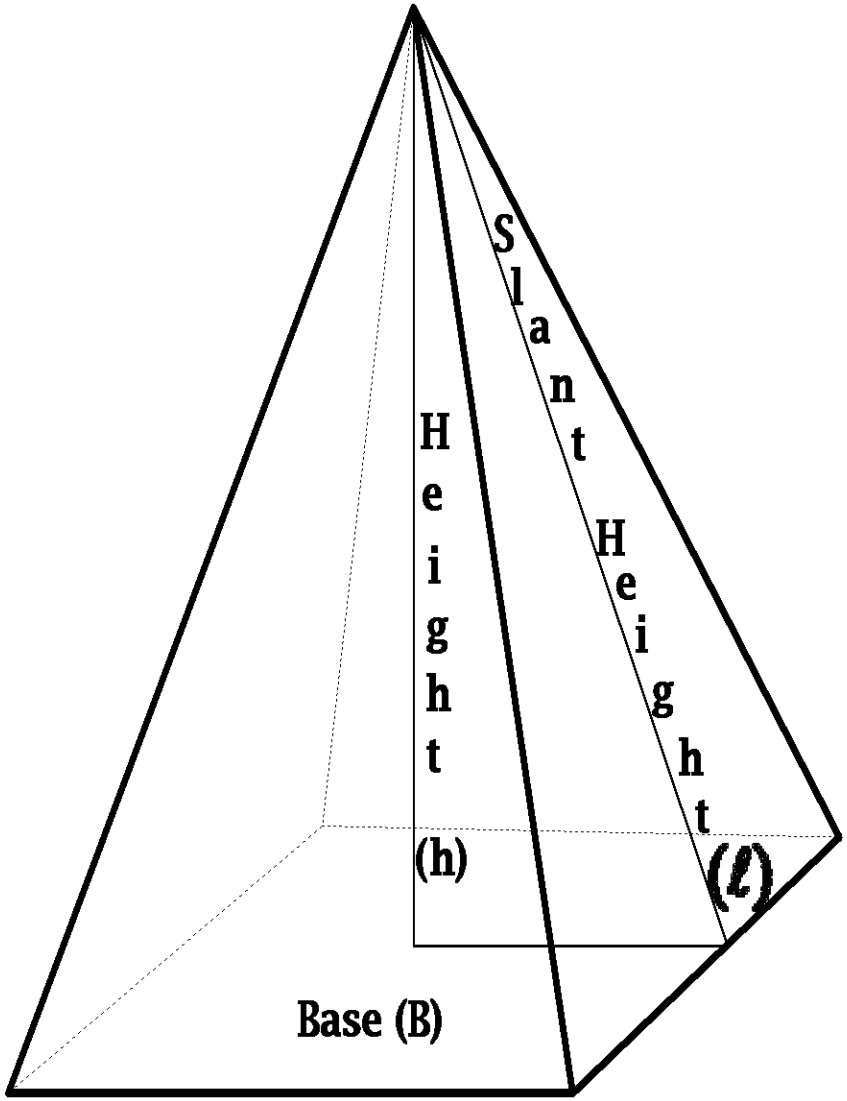
Surface Area and Volume of Pyramids



Lateral Area

$$L.A. = \frac{1}{2}P\ell$$

Surface Area

$$S.A. = \frac{1}{2}P\ell + B$$

Volume

$$V = \frac{1}{3}Bh$$

Variables:

P = Perimeter of Base

ℓ = Slant height

h = Height of Pyramid

B = Area of Base

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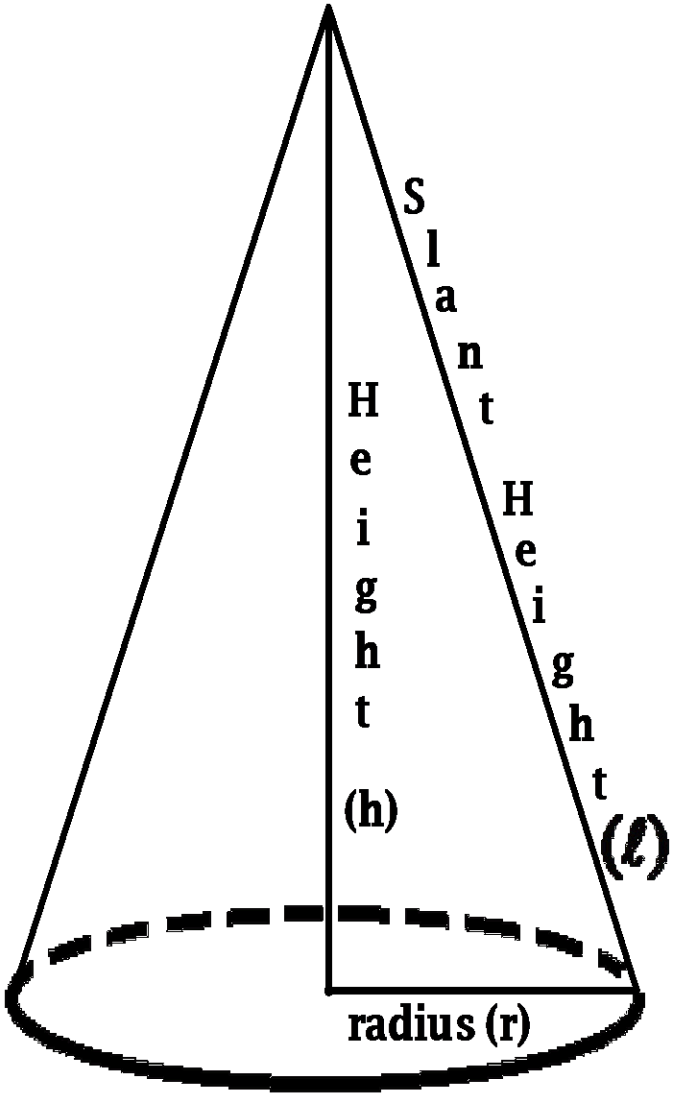
Surface Area and Volume of Cones



Lateral Area

$$L.A. = \pi r \ell$$

Surface Area

$$S.A. = \pi r \ell + \pi r^2$$

Volume

$$V = \frac{1}{3} \pi r^2 h$$

Variables:

P = Perimeter of Base

ℓ = Slant height

h = Height of Cone

r = radius of base

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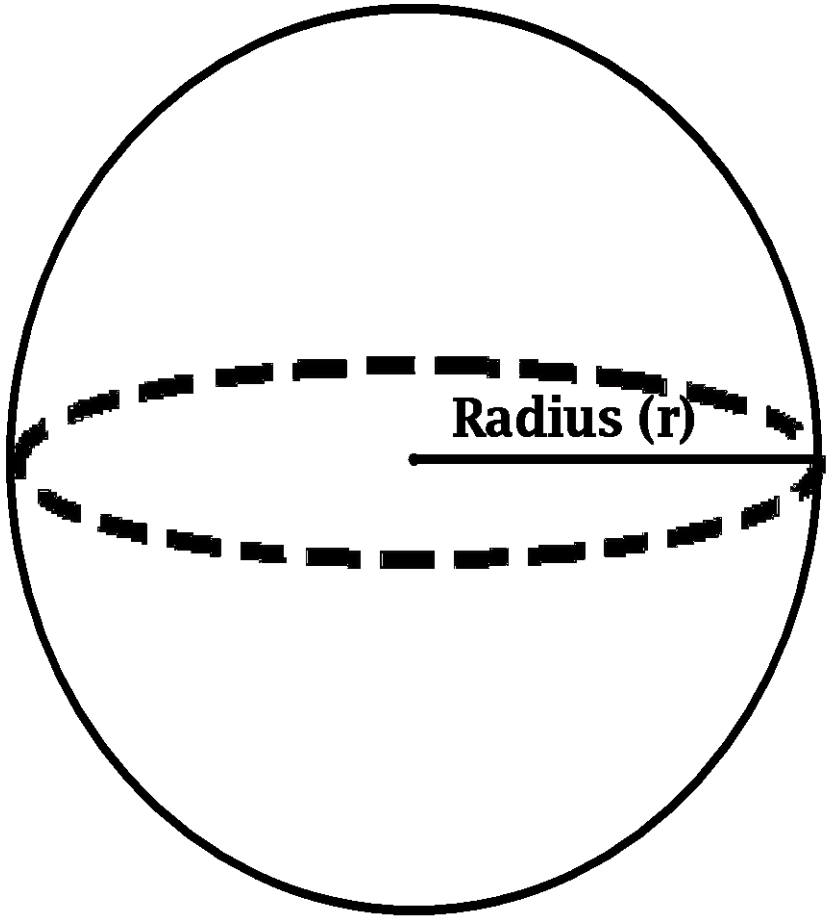
Surface Area and Volume of Spheres



Surface Area

$$S.A. = 4\pi r^2$$

Volume

$$V = \frac{4}{3}\pi r^3$$

Variables:

r = Radius of Sphere

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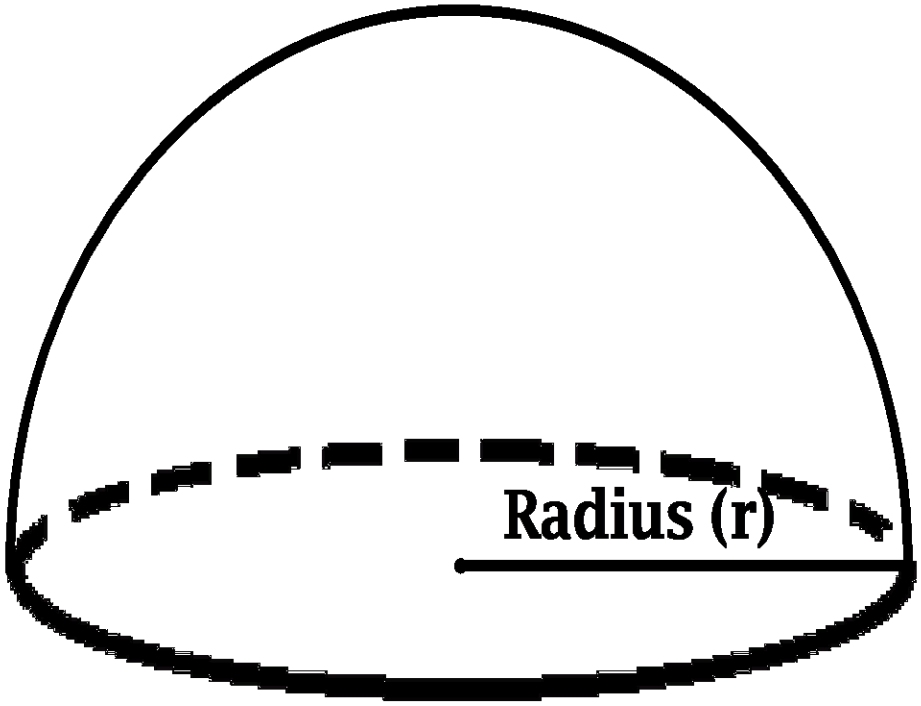
Surface Area and Volume of Hemispheres



Surface Area

$$S.A. = 3\pi r^2$$

Volume

$$V = \frac{2}{3}\pi r^3$$

Variables:

r = Radius of Hemisphere

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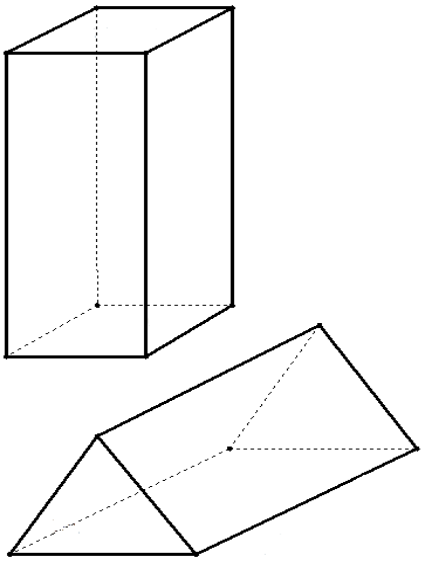
Name: _____ Hour: _____ Date: _____

Surface Area and Volume Formula Sheet

Directions: Label the diagrams and fill in the missing formulas and variables.



Lateral Area

L.A. = _____

Surface Area

S.A. = _____

Volume

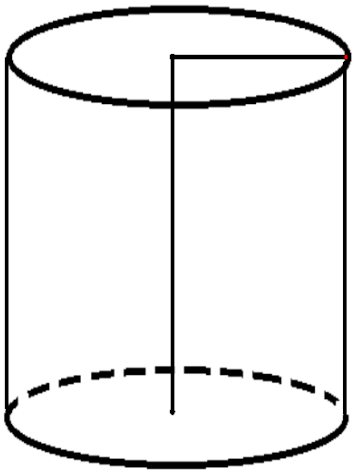
V = _____

Variables:

P = _____

h = _____

B = _____



Lateral Area

L.A. = _____

Surface Area

S.A. = _____

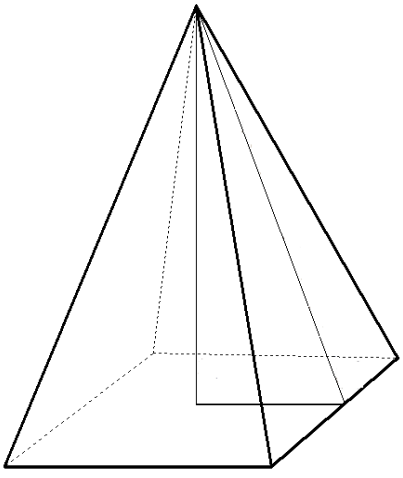
Volume

V = _____

Variables:

h = _____

r = _____



Lateral Area

L.A. = _____

Surface Area

S.A. = _____

Volume

V = _____

Variables:

P = _____

ℓ = _____

h = _____

B = _____

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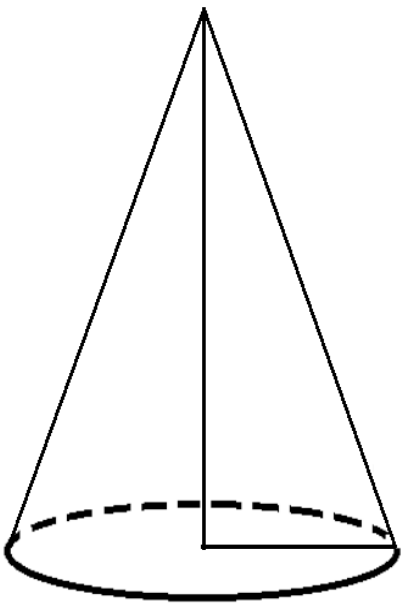


Lateral Area

L.A. = _____

Surface Area

S.A. = _____

Volume

V = _____

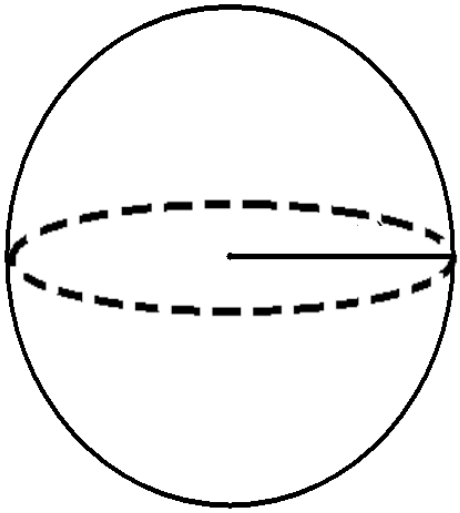
Variables:

P = _____

ℓ = _____

h = _____

r = _____



Surface Area

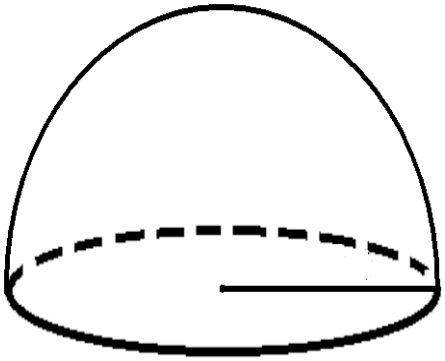
S.A. = _____

Volume

V = _____

Variables:

r = _____



Surface Area

S.A. = _____

Volume

V = _____

Variables:

r = _____

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