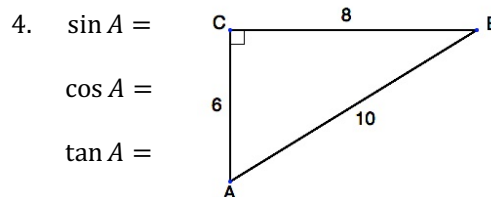
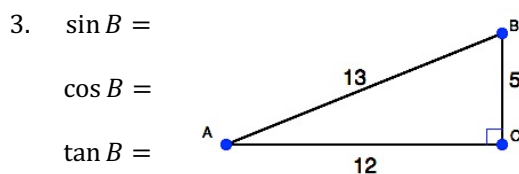
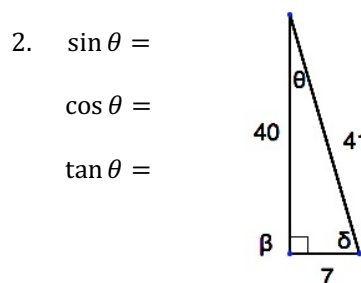
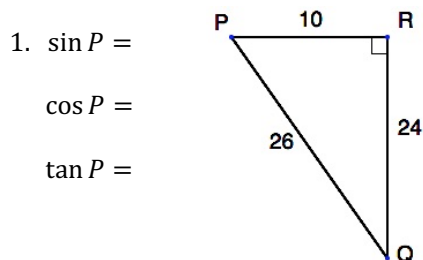


<b>READY, SET, GO!</b>	Name _____	Period _____	Date _____
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**READY**

Topic: Finding the trigonometric ratios in a right triangle

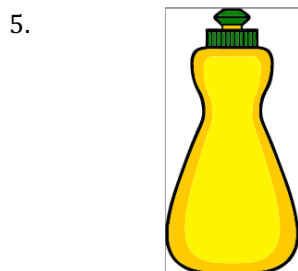
Use the given measures on the triangles to write the indicated trig value.



**SET**

Topic: Drawing solids of revolution

For each of the following solids, draw the two-dimensional shape that would be revolved about the x-axis to generate it.

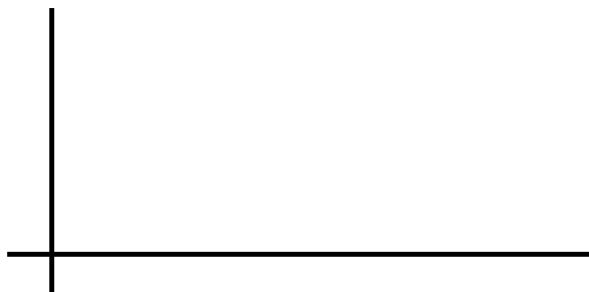
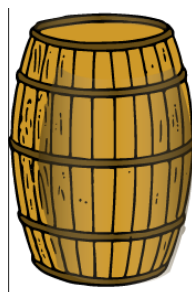


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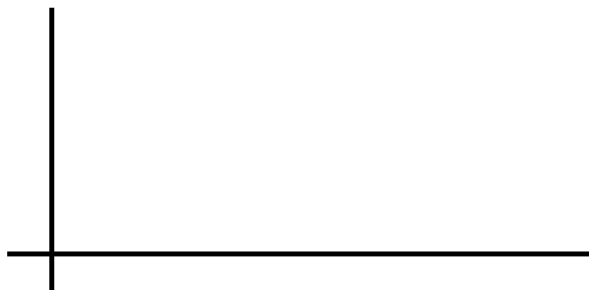
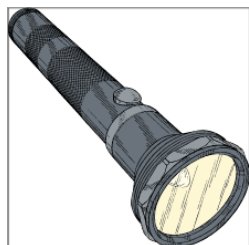
6.



7.



8.



Images used above:

<http://openclipart.org/detail/174126/dish-detergent-bottle-by-tikigiki-174126>

<http://openclipart.org/detail/190246/snow-man-with-hat-by-tiothy-190246>

<http://openclipart.org/detail/167894/barrel-rendered-by-kevie>

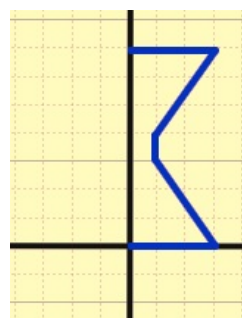
[http://openclipart.org/detail/1638/flashlight-by-johnny\\_automatic](http://openclipart.org/detail/1638/flashlight-by-johnny_automatic)

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9. Name something in your house that would be shaped like the solid of revolution formed, if the figure on the right were rotated about the x-axis.



10. Name something in the world that would be shaped like the solid of revolution formed if the figure on the right were rotated about the y-axis.



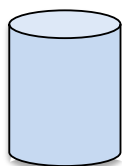
GO

Topic: Using formulas to find the volume of a solid

Find the volume of the indicated solid.

11.  $V = \pi r^2 h$  cylinder

$r = 3$  inches  
 $h = 10$  inches



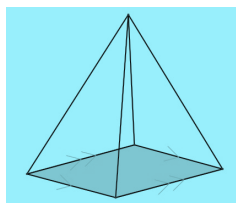
12.  $V = \frac{1}{3}BH$  right circular cone

$r = 8$  cm  
 $H = 20$  cm



13.  $V = \frac{1}{3}l^2 h$  square pyramid

$h = \frac{5\sqrt{2}}{2}$  m  
 $l = 3\sqrt{5}$  m

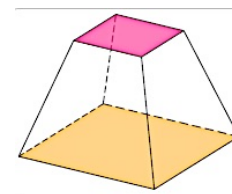


The base is a square.

14.  $V = \frac{1}{3}h(a^2 + ab + b^2)$  square frustum

Where  $a$  and  $b$  are the base and top side lengths and  $h$  is the height

$h = 12$  in  
 $a = 5\sqrt{7}$  in  
 $b = 2\sqrt{7}$  in



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