Name: \_\_\_\_ Period:

For each problem, watch the video. Then, solve the accompanying problem that is <u>similar</u> to the problem in the video. Sketch a diagram. Show your calculations. Report your final solution.

1)	Video: Problem:	https://www.youtube.com/watch?v=Vdt1AJcN2MQ
		Three tennis balls are resting in a cylindrical can. The can is one foot tall. Determine the volume of the air in
		the can to the nearest tenth of a cubic centimeter.
	Solution:	
	bolation	
2)	Video:	https://www.youtube.com/watch?v=U5rO0VQLR6s
		https://www.youtube.com/watch?v=U5rO0VQLR6s The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	https://www.youtube.com/watch?v=U5rO0VQLR6s The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm. Determine the volume of the pyramid.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
2)	Video: Problem:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.
2)	Video:	The base of a square-based pyramid has an area of 100 cm <sup>3</sup> . The slant height of the pyramid is 13 cm.

3)	Video:	<u>https://www.youtube.com/watch?v=Ex-peEPTWGI&amp;feature=youtu.be&amp;t=6s</u> The volume of a cone is $60\pi$ cm <sup>3</sup> and its radius is 6 cm. Determine its height and slant height.
	Problem:	The volume of a cone is $60\pi$ cm <sup>3</sup> and its radius is 6 cm. Determine its height and slant height.
	Colution	
	Solution:	
4)	Video:	Na video is pupilola for this puplor
4)	Problem:	No video is available for this problem. The cone from problem #3 fits perfectly on top of a cylinder (see diagram below). Both the pyramid and the
	riobiciii.	cylinder have the same height. Determine the volume of the cylinder. How many times larger is the volume of
		the cylinder compared to the cone? Determine the total volume of the entire solid (the come/cylinder
		the cylinder compared to the cone? Determine the total volume of the entire solid (the come/cylinder complete solid).
		complete solid).
	Solution	complete solid).
	Solution:	complete solid).