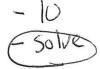
Name SCHIANS LA Mr. Schlansky



Date \_\_\_\_\_ Geometry

## Volume with Algebra

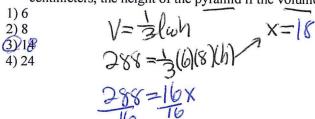
1. A brick in the shape of a rectangular prism has a base that measures 3 inches by 5 inches. If the volume of the brick is 90 cubic inches, what is the height of the brick?



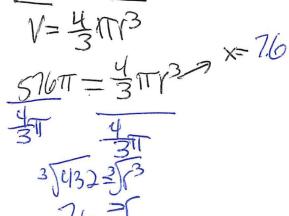
2. A right circular cylinder has a volume of 1,000 cubic inches and a height of 8 inches. What is the radius of the cylinder to the *nearest tenth of an inch*?

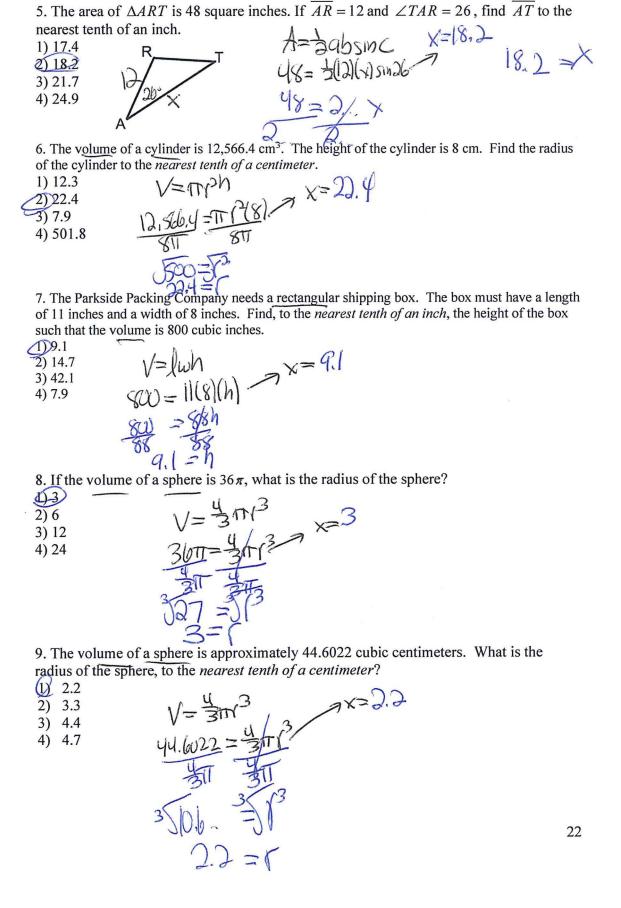
1	63
2)	11.2
3)	19.8
4)	39.8

3. The base of a pyramid is a rectangle with a width of 6 cm and a length of 8 cm. Find, in centimeters, the height of the pyramid if the volume is 288 cm<sup>3</sup>.



4. Find the radius of a sphere with a volume of  $576\pi$  cubic inches. Find the answer to the nearest tenth of an inch.

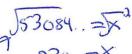




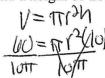
10. An ice cream waffle cone can be modeled by a right circular cone with a base diameter of 6.6 centimeters and a volume of  $54.45\pi$  cubic centimeters. What is the number of centimeters in the height of the waffle cone?

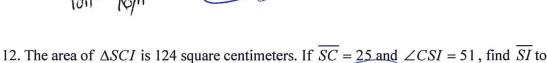
10. The Great Pyramid of Giza was constructed as a regular pyramid with a square base. It was built with an approximate volume of 2,592,276 cubic meters and a height of 146.5 meters. What was the length of one side of its base, to the nearest meter?

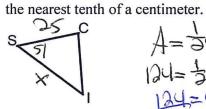
- 1) 73
- 2) 77
- 3) 133
- 4) 230



11. Find the length of the radius of a cylinder to the nearest tenth if it has a volume of  $60 \text{ cm}^3$  and a height of 10 cm.







centimeter.

$$A = \frac{1}{3}absinc$$
 $134 = \frac{1}{3}absinc$ 
 $134 = \frac{1}{3}absinc$ 
 $134 = \frac{1}{3}absins$ 

13. The pyramid shown below has a square base, a height of 7, and a volume of 84. What is the length of the side of the base?

