

NAME: _____

G.G.14: Apply the properties of a cylinder, including: bases are congruent, volume equals the product of the area of the base and the altitude, and lateral area of a right circular cylinder equals the product of an altitude and the circumference of the base

1. 080926ge, P.I. G.G.14

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.

[A] 39.8 [B] 11.2 [C] 19.8 [D] 6.3

2. fall0833ge, P.I. G.G.14

The volume of a cylinder is $12,566.4 \text{ cm}^3$. The height of the cylinder is 8 cm. Find the radius of the cylinder to the nearest tenth of a centimeter.

G.G.14: Apply the properties of a cylinder, including: bases are congruent, volume equals the product of the area of the base and the altitude, and lateral area of a right circular cylinder equals the product of an altitude and the circumference of the base

[1] D

[2] 22.4, and appropriate work is shown.

[1] Appropriate work is shown, but one computational or rounding error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] 22.4, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[2] incorrect procedure.