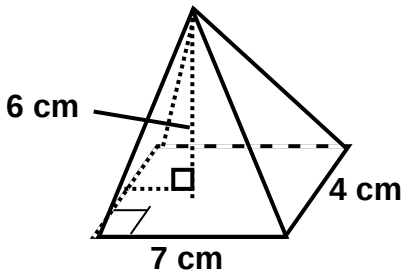
Independent Practice: **VOLUME OF PRYRAMIDS, CONES, AND SHPERES**

NAME: _____ DATE: _____ PERIOD: _____

For # 1 - 20, use the appropriate formula to determine the EXACT volume of the pyramid or cone.

1. Name:

B:



V =_____

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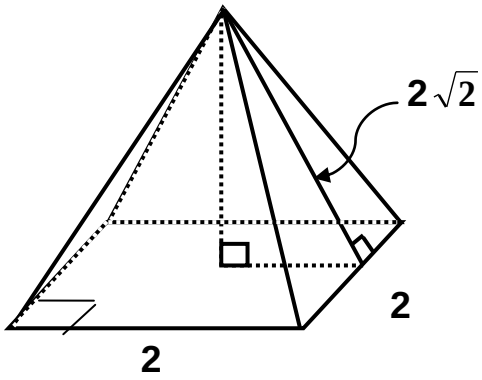
2. Name:

B:



V =_____

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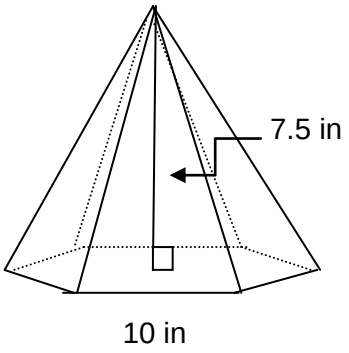
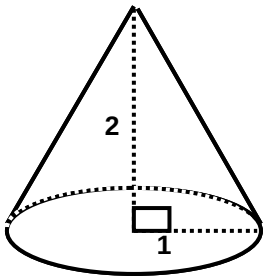
3. Name:

B:



V =_____

4. Name:



B:

V =_____

14.

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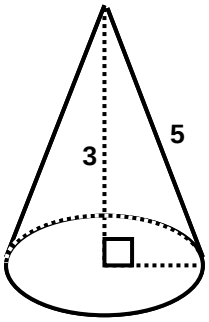
5. Name:



B:

V =_____

16.

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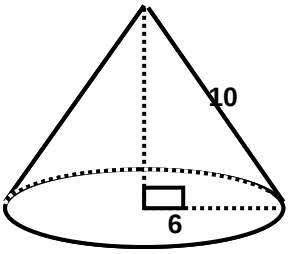
6. Name:

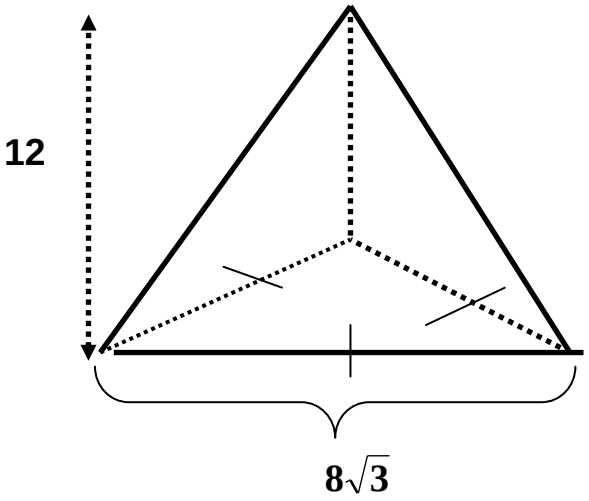


B:

V =_____

7. Name:

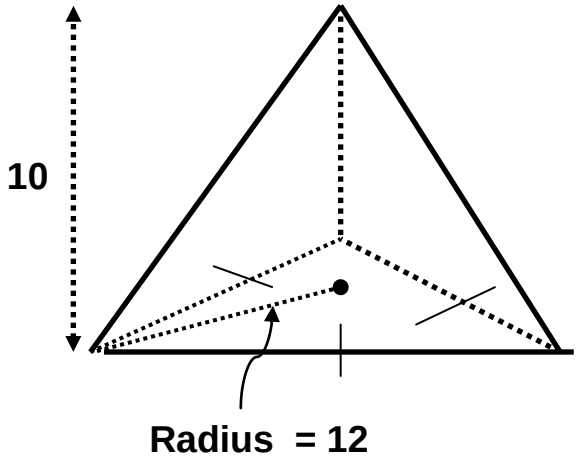
B:



V =_____

8. Name:

B:



9. A pyramid has a rectangular base that is 16 meters long and 21 meters wide. The height of the pyramid is 15 meters. What is the volume of the pyramid?

For # 10 - 13, use the appropriate formula to determine the surface area and/or volume of a sphere. For the APPROXIMATE answers round to the hundredth place value.

10. Exact SA = _____ Radius = 9 cm

Approx. SA ≈ _____

Exact V = _____

Approx. V ≈ _____

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11. Exact SA = _____ Radius = 3m

Approx. SA ≈ _____

Exact V = _____

Approx. V ≈ _____

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12. Exact V = _____ Surface Area = 144π square units.

Approx. V ≈ _____

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13. Exact SA = _____ Circumference of great circle = 16π m.

Approx. SA ≈ _____

Exact V = _____

Approx. V ≈ _____