### Surface Area and Volume of Conical Frustums (A)

Calculate the surface area and volume for each conical frustum.





### Surface Area and Volume of Conical Frustums (A) Answers

Calculate the surface area and volume for each conical frustum.





#### Surface Area and Volume of Conical Frustums (B)

Calculate the surface area and volume for each conical frustum.





### Surface Area and Volume of Conical Frustums (B) Answers

Calculate the surface area and volume for each conical frustum.





### Surface Area and Volume of Conical Frustums (C)

Calculate the surface area and volume for each conical frustum.





#### Surface Area and Volume of Conical Frustums (C) Answers Calculate the surface area and volume for each conical frustum. Surface Area = $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$ Volume = $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ 1. 2. $r_2 = 18 \,\mathrm{nm}$ $r_2 = 10 \, \mathrm{yd}$ $h \models 45 \,\mathrm{nm}$ $h \models 25 \, \mathrm{yd}$ $r_1 = 25 \,\mathrm{yd}$ $r_1 = 36 \,\mathrm{nm}$ Surface Area: $13,312 \text{ nm}^2$ Surface Area: $5483 \text{ yd}^2$ Volume: $25,525 \text{ yd}^3$ Volume: $106,877 \text{ nm}^3$ 3. $r_2 = 6 \,\mathrm{ft}$ 4. $r_2 = 1 \,\mathrm{mm}$



### Surface Area and Volume of Conical Frustums (D)

Calculate the surface area and volume for each conical frustum.





# Surface Area and Volume of Conical Frustums (D) Answers

Calculate the surface area and volume for each conical frustum.

Surface Area =  $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$  Volume =  $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ 



4.

Surface Area:  $4551 \,\mathrm{ft}^2$ Volume:  $21,991 \,\mathrm{ft}^3$ 



Surface Area:  $3802 \,\mathrm{ft}^2$ Volume:  $17,191 \,\mathrm{ft}^3$ 





### Surface Area and Volume of Conical Frustums (E)

Calculate the surface area and volume for each conical frustum.

Surface Area =  $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$  Volume =  $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ 



1.





#### Surface Area and Volume of Conical Frustums (E) Answers

Calculate the surface area and volume for each conical frustum.



### Surface Area and Volume of Conical Frustums (F)

Calculate the surface area and volume for each conical frustum.





#### Surface Area and Volume of Conical Frustums (F) Answers

Calculate the surface area and volume for each conical frustum.

Surface Area =  $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$  Volume =  $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ 



Volume:  $24,216 \,\mathrm{m}^3$ 





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#### Surface Area and Volume of Conical Frustums (G)

Calculate the surface area and volume for each conical frustum.

Surface Area =  $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$  Volume =  $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ 





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#### Surface Area and Volume of Conical Frustums (G) Answers

Calculate the surface area and volume for each conical frustum.



### Surface Area and Volume of Conical Frustums (H)

Calculate the surface area and volume for each conical frustum.





## Surface Area and Volume of Conical Frustums (H) Answers

Calculate the surface area and volume for each conical frustum.

Surface Area =  $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$  Volume =  $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ 





Surface Area: 13,312 mm Volume: 106,877 mm<sup>3</sup>

#### Surface Area and Volume of Conical Frustums (I)

Calculate the surface area and volume for each conical frustum.





## Surface Area and Volume of Conical Frustums (I) Answers Calculate the surface area and volume for each conical frustum. Surface Area = $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$ Volume = $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$ $r_2 = 8 \, \mathrm{yd}$ 2. 1. $r_2 = 2 \,\mathrm{ft}$ $h = 24 \, \mathrm{yd}$ $h = 6 \, \mathrm{ft}$ $r_1 = 16 \,\mathrm{yd}$ $r_1 = 4 \,\mathrm{ft}$ Surface Area: $2913 \, yd^2$ Surface Area: $182\,{\rm ft}^2$ Volume: $11,259 \text{ yd}^3$ Volume: $176 \, \text{ft}^3$ $r_2 = 9 \,\mathrm{nm}$ $r_2 = 12 \,\mathrm{mi}$ 3. 4. $h \models 16 \,\mathrm{mi}$ $h = 18 \,\mathrm{nm}$ $r_1 = 16 \,\mathrm{mi}$ $r_1 = 12 \,\mathrm{nm}$ Surface Area: $2707 \,\mathrm{mi}^2$ Volume: $9919 \text{ mi}^3$

Surface Area:  $1911 \text{ nm}^2$ Volume:  $6277 \text{ nm}^3$ 

#### Surface Area and Volume of Conical Frustums (J)

Calculate the surface area and volume for each conical frustum.





## Surface Area and Volume of Conical Frustums (J) Answers Calculate the surface area and volume for each conical frustum. Surface Area = $\pi (r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2$ Volume = $\frac{\pi}{3}h(r_1^2 + r_2^2 + r_1r_2)$







