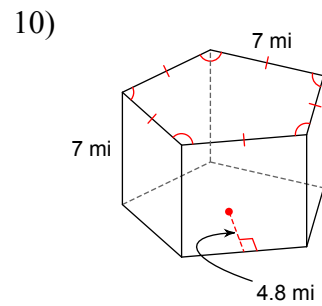
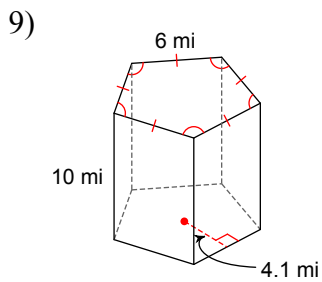
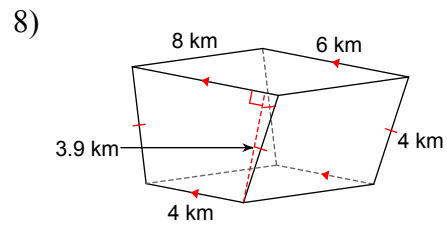
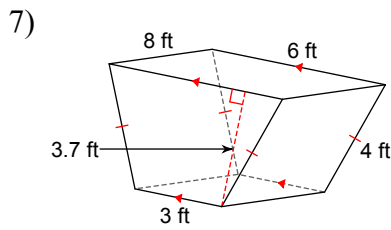
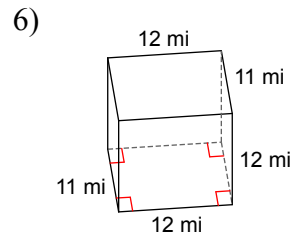
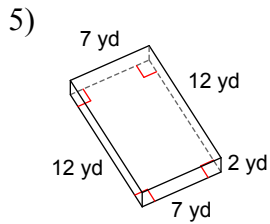
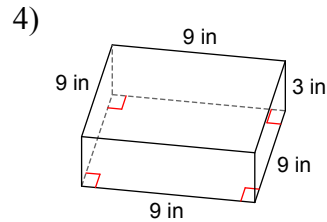
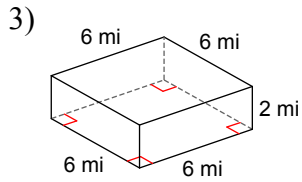
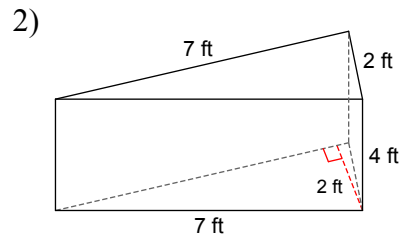
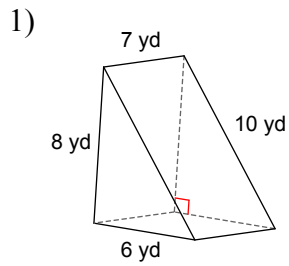
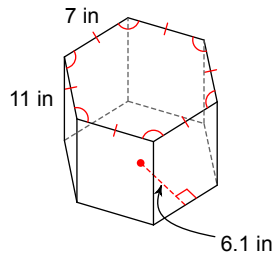


Chap 12: Surface Area and Volume

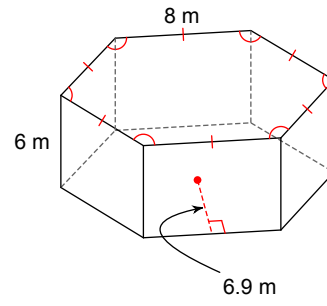
Find the lateral area and surface area of each figure. Round your answers to the nearest hundredth, if necessary.



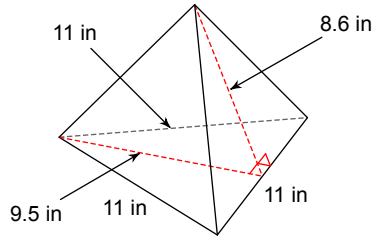
11)



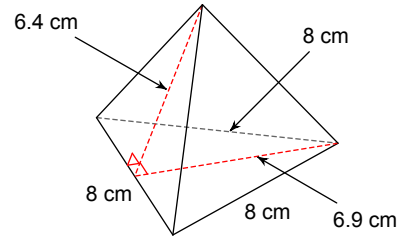
12)



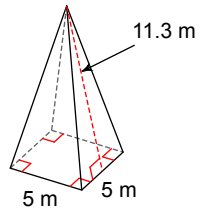
13)



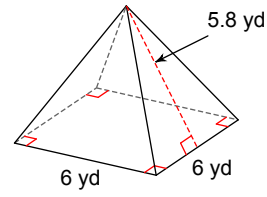
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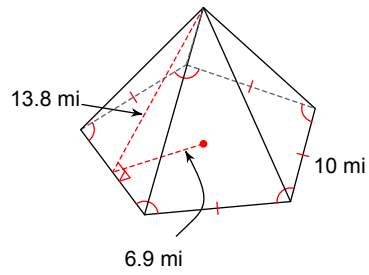
15)



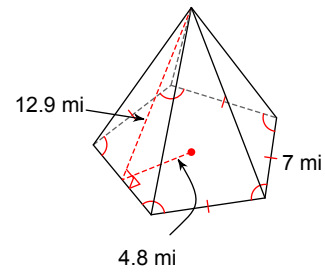
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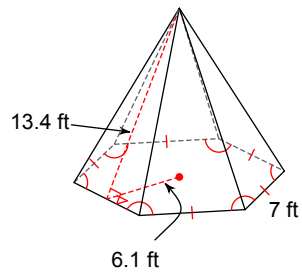
17)



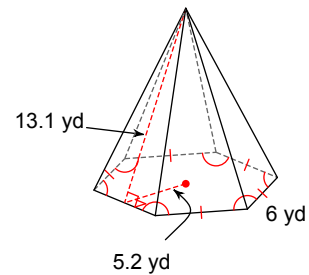
18)



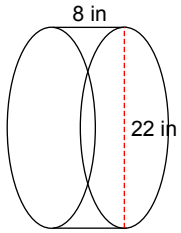
19)



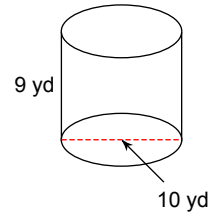
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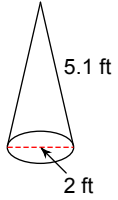
21)



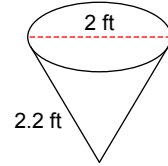
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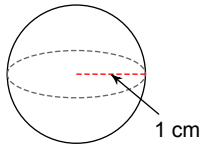
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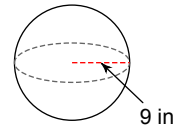
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25)

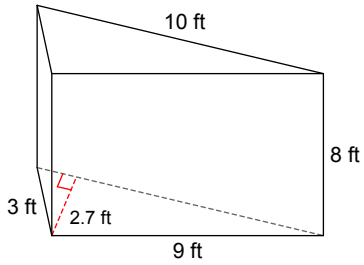


26)

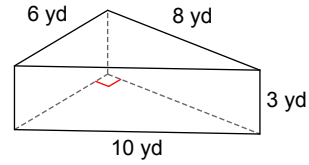


**Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.**

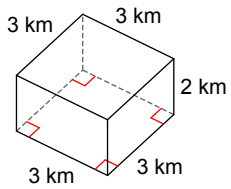
27)



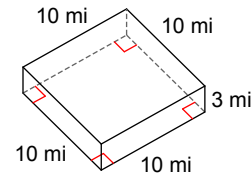
28)



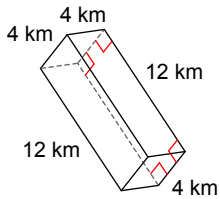
29)



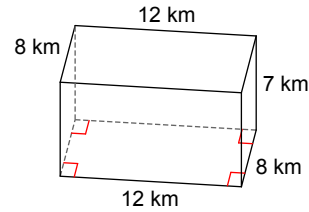
30)



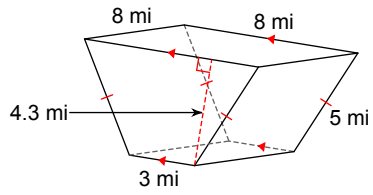
31)



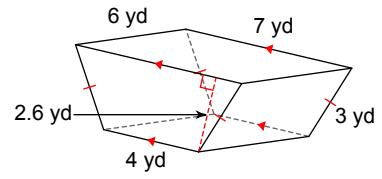
32)



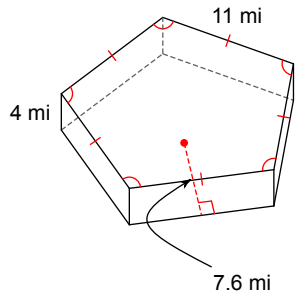
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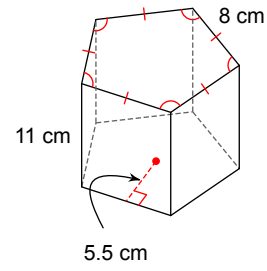
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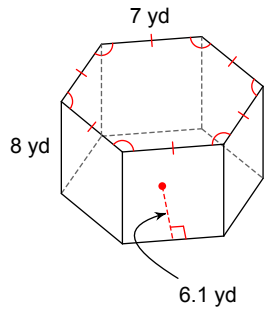
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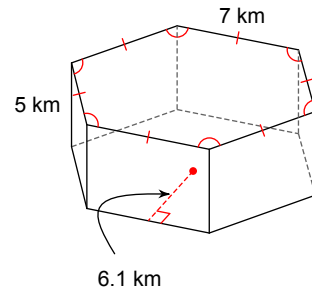
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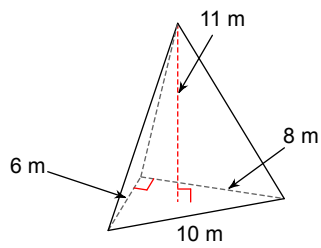
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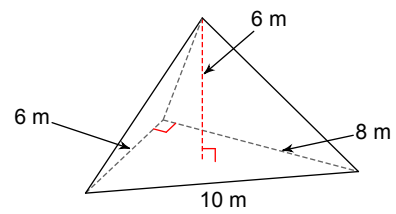
38)



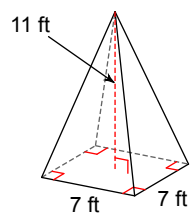
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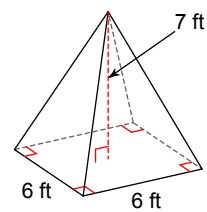
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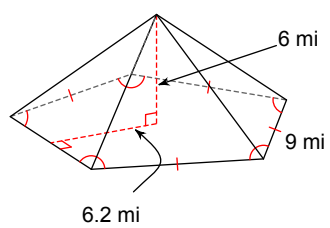
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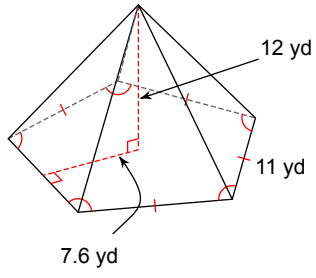
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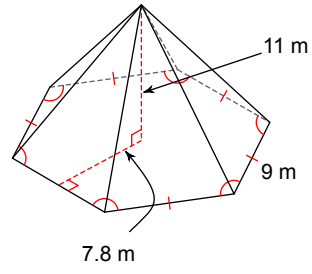
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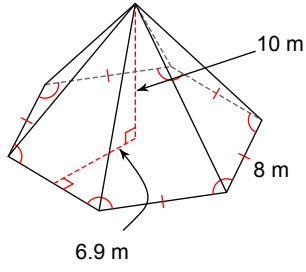
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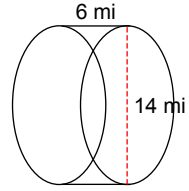
45)



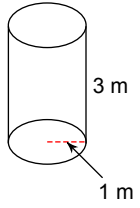
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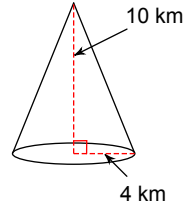
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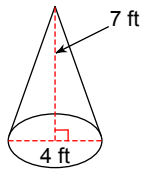
48)



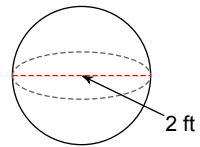
49)



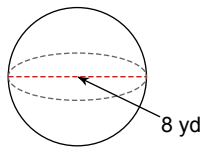
50)



51)



52)



## Answers to Chap 12: Surface Area and Volume (ID: 1)

- 1)  $168 \text{ yd}^2$ ;  $216 \text{ yd}^2$       2)  $64 \text{ ft}^2$ ;  $78 \text{ ft}^2$       3)  $48 \text{ mi}^2$ ;  $120 \text{ mi}^2$       4)  $108 \text{ in}^2$ ;  $270 \text{ in}^2$   
5)  $76 \text{ yd}^2$ ;  $244 \text{ yd}^2$       6)  $552 \text{ mi}^2$ ;  $816 \text{ mi}^2$       7)  $136 \text{ ft}^2$ ;  $169.3 \text{ ft}^2$       8)  $144 \text{ km}^2$ ;  $183 \text{ km}^2$   
9)  $300 \text{ mi}^2$ ;  $423 \text{ mi}^2$       10)  $245 \text{ mi}^2$ ;  $413 \text{ mi}^2$       11)  $462 \text{ in}^2$ ;  $718.2 \text{ in}^2$       12)  $288 \text{ m}^2$ ;  $619.2 \text{ m}^2$   
13)  $141.9 \text{ in}^2$ ;  $194.15 \text{ in}^2$       14)  $76.8 \text{ cm}^2$ ;  $104.4 \text{ cm}^2$       15)  $113 \text{ m}^2$ ;  $138 \text{ m}^2$   
16)  $69.6 \text{ yd}^2$ ;  $105.6 \text{ yd}^2$       17)  $345 \text{ mi}^2$ ;  $517.5 \text{ mi}^2$       18)  $225.75 \text{ mi}^2$ ;  $309.75 \text{ mi}^2$   
19)  $281.4 \text{ ft}^2$ ;  $409.5 \text{ ft}^2$       20)  $235.8 \text{ yd}^2$ ;  $329.4 \text{ yd}^2$       21)  $552.92 \text{ in}^2$ ;  $1313.19 \text{ in}^2$   
22)  $282.74 \text{ yd}^2$ ;  $439.82 \text{ yd}^2$       23)  $16.02 \text{ ft}^2$ ;  $19.16 \text{ ft}^2$       24)  $6.91 \text{ ft}^2$ ;  $10.05 \text{ ft}^2$   
25) None;  $12.57 \text{ cm}^2$       26) None;  $1017.88 \text{ in}^2$       27)  $108 \text{ ft}^3$       28)  $72 \text{ yd}^3$   
29)  $18 \text{ km}^3$       30)  $300 \text{ mi}^3$       31)  $192 \text{ km}^3$       32)  $672 \text{ km}^3$   
33)  $189.2 \text{ mi}^3$       34)  $85.8 \text{ yd}^3$       35)  $836 \text{ mi}^3$       36)  $1210 \text{ cm}^3$   
37)  $1024.8 \text{ yd}^3$       38)  $640.5 \text{ km}^3$       39)  $88 \text{ m}^3$       40)  $48 \text{ m}^3$   
41)  $179.67 \text{ ft}^3$       42)  $84 \text{ ft}^3$       43)  $279 \text{ mi}^3$       44)  $836 \text{ yd}^3$   
45)  $772.2 \text{ m}^3$       46)  $552 \text{ m}^3$       47)  $923.63 \text{ mi}^3$       48)  $9.42 \text{ m}^3$   
49)  $167.55 \text{ km}^3$       50)  $29.32 \text{ ft}^3$       51)  $4.19 \text{ ft}^3$       52)  $268.08 \text{ yd}^3$