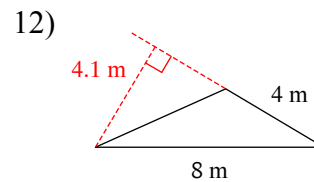
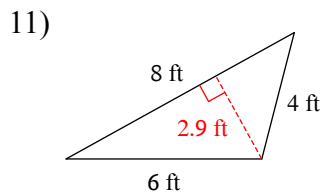
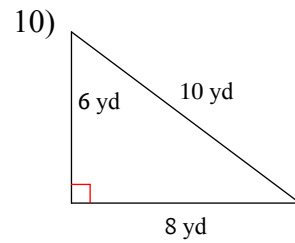
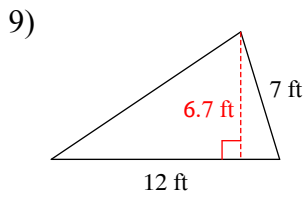
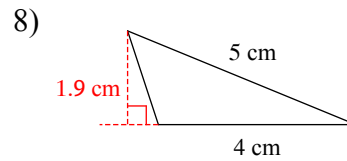
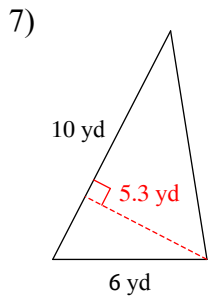
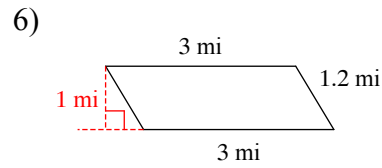
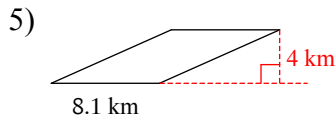
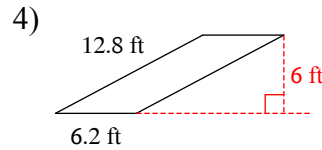
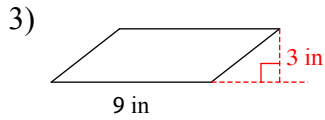
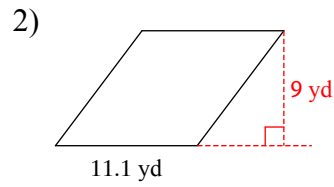
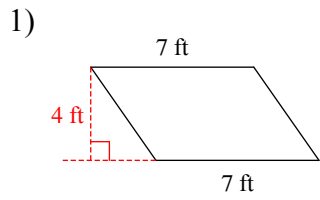
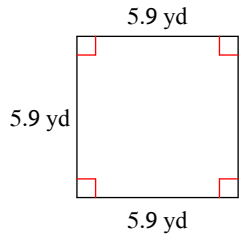


Chapter 11: Areas of Polygons

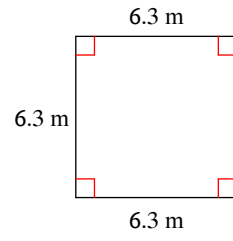
Find the area of each.



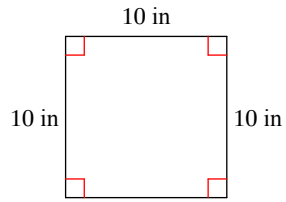
13)



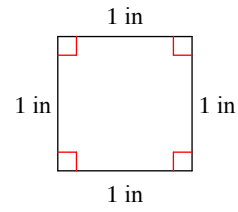
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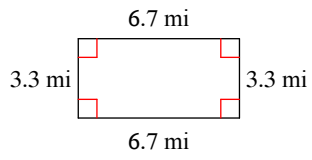
15)



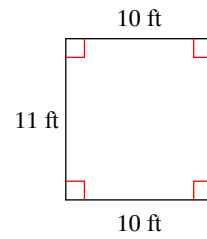
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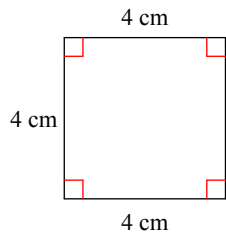
17)



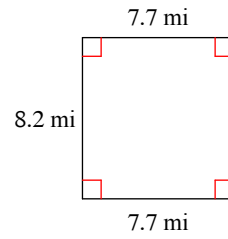
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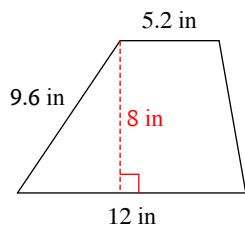
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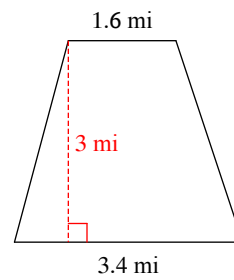
20)



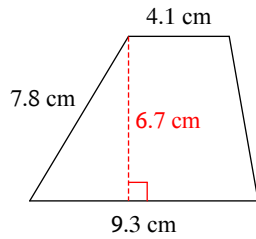
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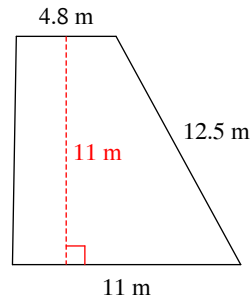
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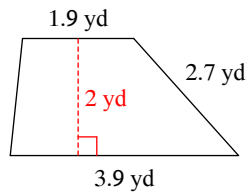
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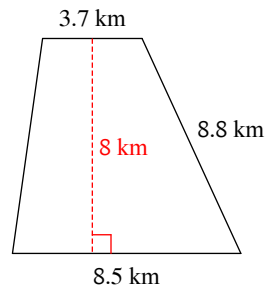
24)



25)

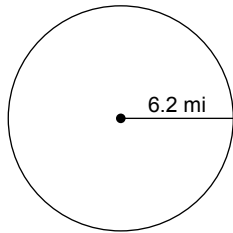


26)

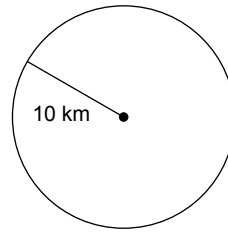


**Find the area of each. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

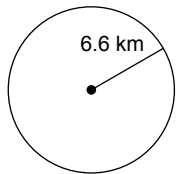
27)



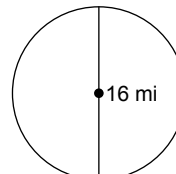
28)



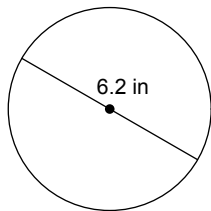
29)



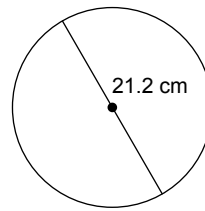
30)



31)



32)



**Find the radius of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

33) area = 320.5 in<sup>2</sup>

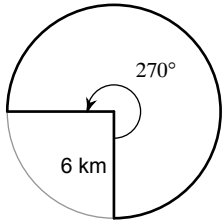
34) area = 153.9 in<sup>2</sup>

35) area =  $78.5 \text{ mi}^2$

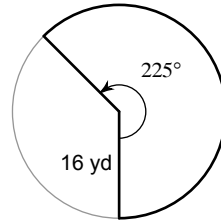
36) area =  $12.6 \text{ in}^2$

**Find the area of each sector.**

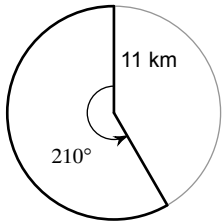
37)



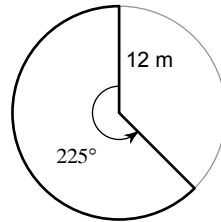
38)



39)

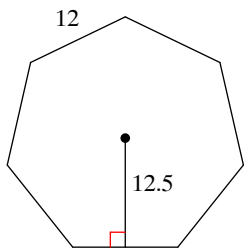


40)

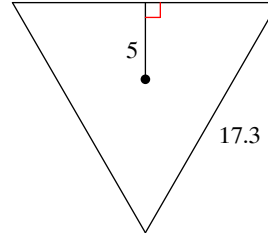


**Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.**

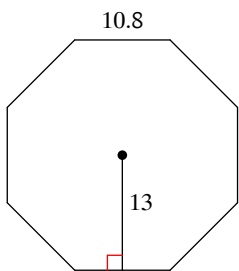
41)



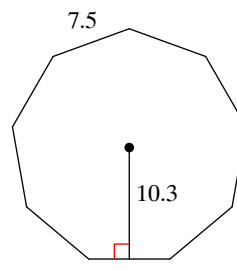
42)



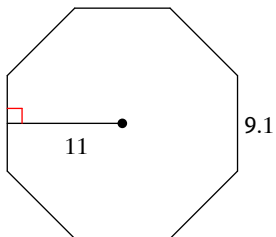
43)



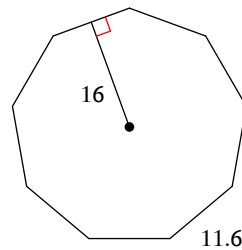
44)



45)



46)



## Answers to Chapter 11: Areas of Polygons (ID: 1)

- |                          |                           |                                      |                          |
|--------------------------|---------------------------|--------------------------------------|--------------------------|
| 1) $28 \text{ ft}^2$     | 2) $99.9 \text{ yd}^2$    | 3) $27 \text{ in}^2$                 | 4) $37.2 \text{ ft}^2$   |
| 5) $32.4 \text{ km}^2$   | 6) $3 \text{ mi}^2$       | 7) $26.5 \text{ yd}^2$               | 8) $3.8 \text{ cm}^2$    |
| 9) $40.2 \text{ ft}^2$   | 10) $24 \text{ yd}^2$     | 11) $11.6 \text{ ft}^2$              | 12) $8.2 \text{ m}^2$    |
| 13) $34.81 \text{ yd}^2$ | 14) $39.69 \text{ m}^2$   | 15) $100 \text{ in}^2$               | 16) $1 \text{ in}^2$     |
| 17) $22.11 \text{ mi}^2$ | 18) $110 \text{ ft}^2$    | 19) $16 \text{ cm}^2$                | 20) $63.14 \text{ mi}^2$ |
| 21) $68.8 \text{ in}^2$  | 22) $7.5 \text{ mi}^2$    | 23) $44.89 \text{ cm}^2$             | 24) $86.9 \text{ m}^2$   |
| 25) $5.8 \text{ yd}^2$   | 26) $48.8 \text{ km}^2$   | 27) $120.8 \text{ mi}^2$             | 28) $314.2 \text{ km}^2$ |
| 29) $136.8 \text{ km}^2$ | 30) $201.1 \text{ mi}^2$  | 31) $30.2 \text{ in}^2$              | 32) $353 \text{ cm}^2$   |
| 33) $10.1 \text{ in}$    | 34) $7 \text{ in}$        | 35) $5 \text{ mi}$                   | 36) $2 \text{ in}$       |
| 37) $27\pi \text{ km}^2$ | 38) $160\pi \text{ yd}^2$ | 39) $\frac{847\pi}{12} \text{ km}^2$ | 40) $90\pi \text{ m}^2$  |
| 41) $525$                | 42) $129.8$               | 43) $561.6$                          | 44) $347.6$              |
| 45) $400.4$              | 46) $835.2$               |                                      |                          |