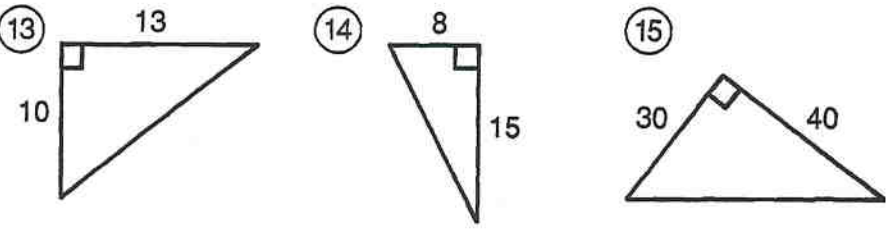
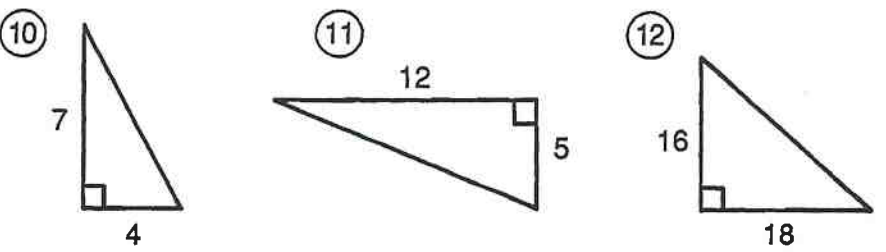
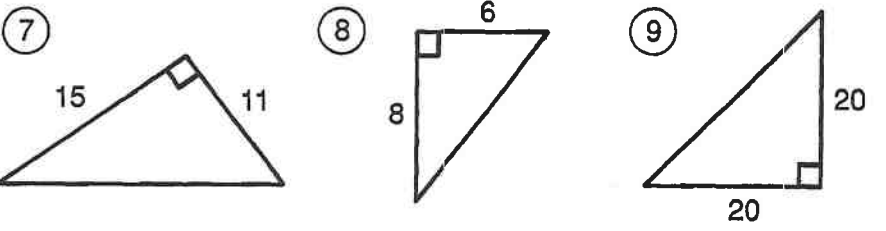
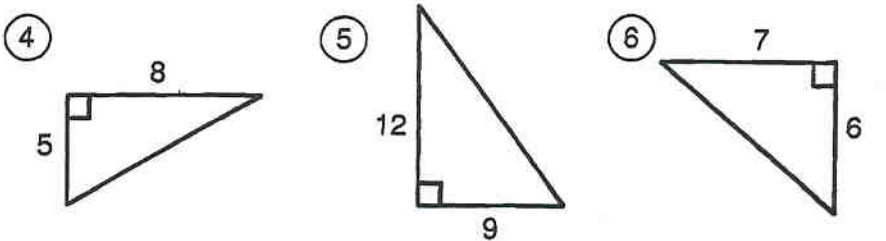
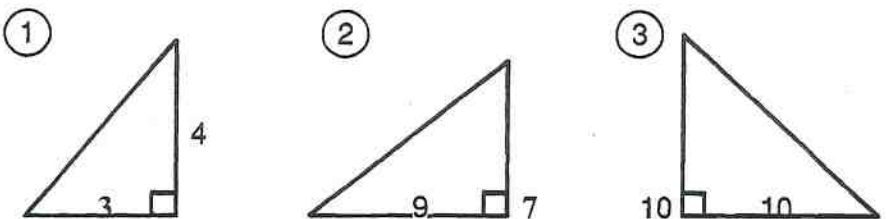


# Why Do Adults Complain So Much?

Find the length of the hypotenuse of each right triangle below. Find your answer in the answer column. Write the letter of the answer in the box containing the number of the exercise.



Answers

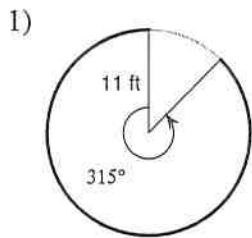


- (E)  $\sqrt{85} \approx 9.2$
- (D)  $\sqrt{562} \approx 23.7$
- (Y)  $\sqrt{169} = 13$
- (O)  $\sqrt{130} \approx 11.4$
- (U)  $\sqrt{289} = 17$
- (T)  $\sqrt{225} = 15$
- (H)  $\sqrt{800} \approx 28.3$
- (E)  $\sqrt{25} = 5$
- (N)  $\sqrt{580} \approx 24.1$
- (R)  $\sqrt{2,500} = 50$
- (S)  $\sqrt{346} \approx 18.6$
- (P)  $\sqrt{89} \approx 9.4$
- (L)  $\sqrt{275} \approx 16.6$
- (G)  $\sqrt{65} \approx 8.1$
- (A)  $\sqrt{200} \approx 14.1$
- (R)  $\sqrt{269} \approx 16.4$
- (A)  $\sqrt{100} = 10$

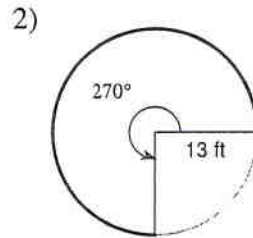
5	9	1	11	3	13	6	10	15	2	8	12	14	4	7
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Arc Length and Sector Area

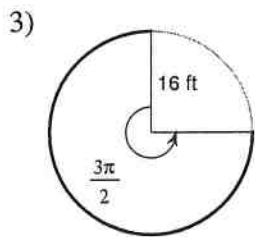
Find the length of each arc. Round your answers to the nearest tenth.



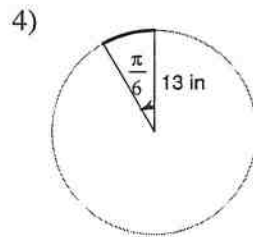
60.5 ft



61.3 ft



75.4 ft



6.8 in

5)  $r = 18 \text{ cm}, \theta = 60^\circ$

18.8 cm

6)  $r = 16 \text{ m}, \theta = 75^\circ$

20.9 m

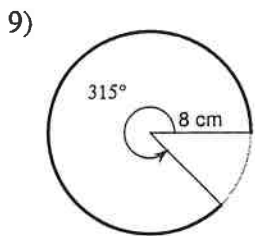
7)  $r = 9 \text{ ft}, \theta = \frac{7\pi}{4}$

49.5 ft

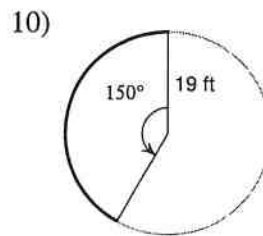
8)  $r = 14 \text{ ft}, \theta = \frac{19\pi}{12}$

69.6 ft

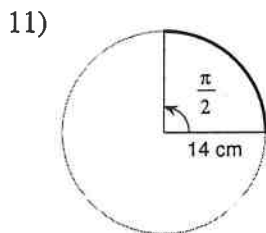
Find the length of each arc. Do not round.



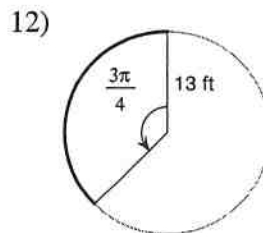
$14\pi \text{ cm}$



$\frac{95\pi}{6} \text{ ft}$



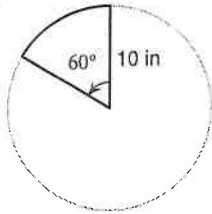
$7\pi \text{ cm}$



$\frac{39\pi}{4} \text{ ft}$

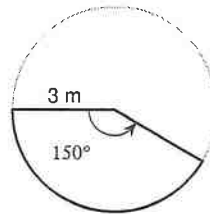
Find the area of each sector. Round your answers to the nearest tenth.

13)



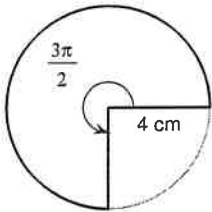
$$52.4 \text{ in}^2$$

14)



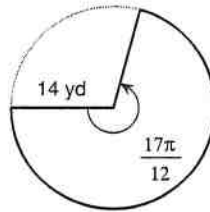
$$11.8 \text{ m}^2$$

15)



$$37.7 \text{ cm}^2$$

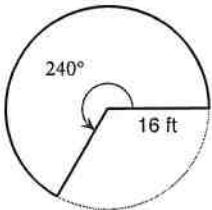
16)



$$436.2 \text{ yd}^2$$

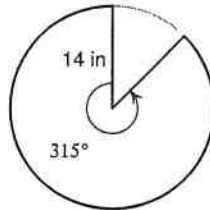
Find the area of each sector. Do not round.

17)



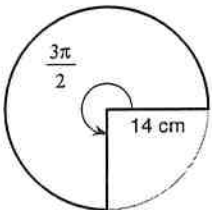
$$\frac{512\pi}{3} \text{ ft}^2$$

18)



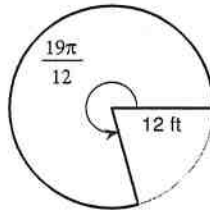
$$\frac{343\pi}{2} \text{ in}^2$$

19)



$$147\pi \text{ cm}^2$$

20)



$$114\pi \text{ ft}^2$$

21)  $r = 10 \text{ mi}, \theta = \frac{\pi}{2}$

$$25\pi \text{ mi}^2$$

22)  $r = 12 \text{ yd}, \theta = \frac{5\pi}{3}$

$$120\pi \text{ yd}^2$$

23)  $r = 7 \text{ km}, \theta = 60^\circ$

$$\frac{49\pi}{6} \text{ km}^2$$

24)  $r = 7 \text{ mi}, \theta = 225^\circ$

$$\frac{245\pi}{8} \text{ mi}^2$$