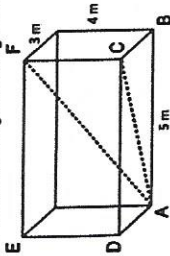


Find the slant height, c , of the cone.

8 ft

Find the length of segment AF.



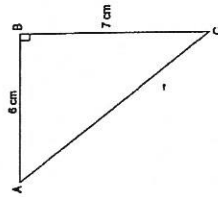
20 m

12. A square has a side length of 15 cm. Which of the following is closest to the length of a diagonal of the square?

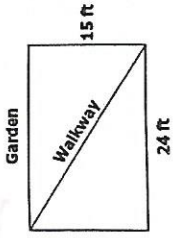
- A. 15 cm
- B. 18 cm
- C. 21 cm
- D. 24 cm

13. What is the length of segment AC?

- A. $\sqrt{85}$ cm
- B. $\sqrt{13}$ cm
- C. 8 cm
- D. 10 cm



14. Mr. Ammons is constructing a walkway through his rectangular garden. The walkway runs diagonally as shown in the diagram. Which is closest to the length of the walkway?



- A. 18.7 ft
- B. 28.3 ft
- C. 30.0 ft
- D. 39.0 ft

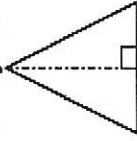
15. Is a triangle with side lengths 23, 30 and 19 a right triangle? Show why or why not.

group of special right triangle is the 50-60-90 triangle. The 50-60-90 triangle has sides in the ratio 1:2: $\sqrt{3}$.

16. Is a triangle with side lengths 21, 20 and 29 a right triangle? Show why or why not.

Yes, 21, 20, 29 are trivially true, they can be the sides of a right triangle or a 30-60-90 triangle.

17. An isosceles triangle has congruent sides of 20 cm. The base is 12 cm. Find the height of the triangle.



240 cm

18. Two sides of a right triangle are 8 and 15. Find the missing side if 8 and 15 are a leg and the hypotenuse.

Yes because if you multiply it you get the same number 8 and 15