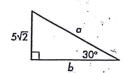
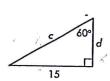
Practice Book Lesson 10.4

In Exercises 8-10, find each missing length. All lengths are in centimeters.



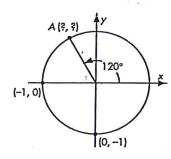
9.
$$c = d = d = d$$

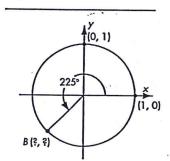


10.
$$e =$$



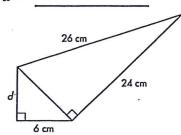
- 11. What are the coordinates of point A?
- 12. What are the coordinates of point B?



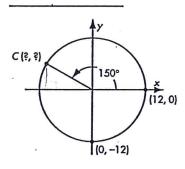


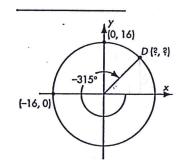
Lesson 10.5

1. *d* =



- 2. What are the coordinates of point C?
- 3. What are the coordinates of point D?



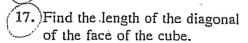


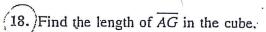
In Exercises 4–8, use $\triangle ABC$ with vertices A(4, 14), B(10, 6), and C(16, 14).

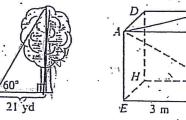
Determine whether $\triangle ABC$ is scalene, isosceles, or equilateral and find its perimeter.

Answer Exercises 16-18 in radical form. Then calculate to the nearest hundredth.

16. Find the height of the tree.





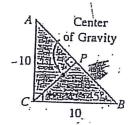


19. Find the perimeter of an equilateral triangle with an altitude $6\sqrt{3}$ inches.

The legs of an isosceles triangle are $10\sqrt{3}$ cm long. The vertex angle has a measure of 120. Find the length of the base of the triangle and the length of the altitude from the vertex angle.

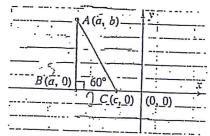
25. Each side of a regular hexagon *PQRSTU* measures 10 in. Find the lengths of the diagonals from *P*.

27. In this triangular disk, the center of gravity is two-thirds of the way from C along altitude \overline{CP} . Find its distance from C.



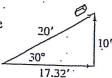
26. Find a formula for the length of the internal diagonal of any cube having an edge of length s.

28. Find the coordinates of A if c = -2 and a = -5. Leave the answer in radical form.



Applications

29. Physics A body is displaced 20 ft in a direction 30° above the horizontal. This has the same result as a displacement of 17.32 ft along the horizontal followed by a move of 10 ft along the vertical. Verify that 17.32′ and 10′ are correct.



where the wires are attached?

