

Chapter Test A

For use after Chapter 12

Find the distance between the two points.

17. $(5, 8), (2, 4)$

18. $(7, 12), (1, 4)$

Decide whether the points are vertices of a right triangle.

19. $(0, 0), (0, 3), (4, 0)$

20. $(1, 2), (3, 0), (3, 3)$

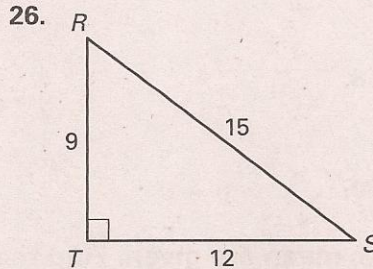
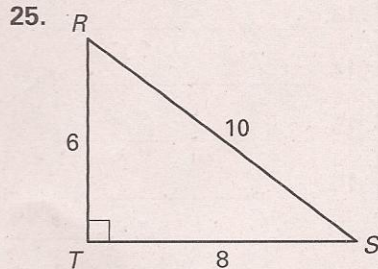
21. You and a friend go biking. You bike 12 miles north and 2 miles east. What is the straight-line distance from your starting point?

Find the midpoint between the two points.

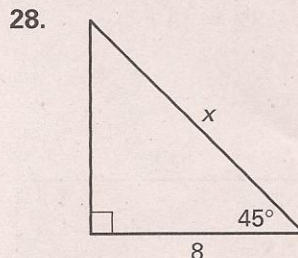
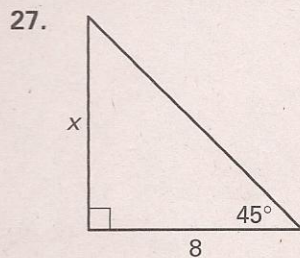
22. $(2, 2), (6, 4)$

23. $(2, 3), (4, 1)$

24. A company had sales of \$500,000 in 1996 and sales of \$720,000 in 1998. Use the midpoint formula to find the company's sales in 1997.

Find the sine, cosine, and tangent of $\angle R$ and of $\angle S$.

Find the missing lengths of the sides of the triangles. Round your answer to the nearest hundredth.



17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

27. _____

28. _____