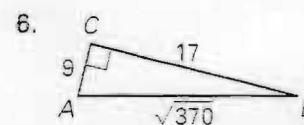
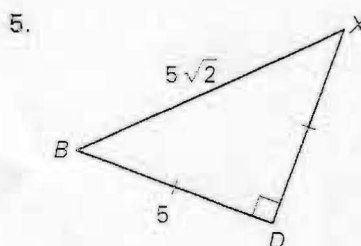
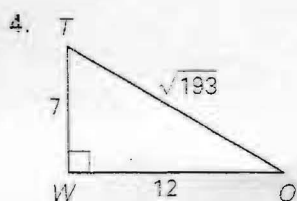
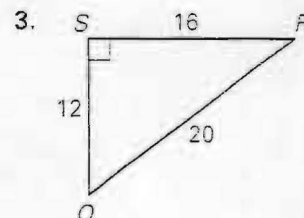
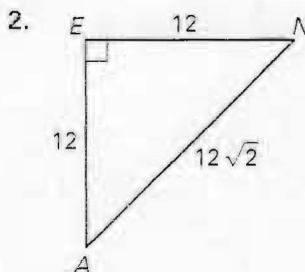
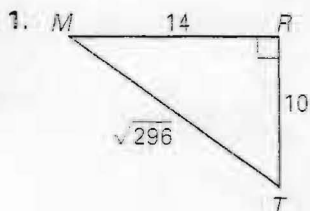


Practice B

For use with pages 558–566

Find the sine, the cosine, and the tangent of the acute angles of the triangle. Express each answer as a decimal rounded to four places.



Use a calculator to approximate the given value to four decimal places.

7. $\sin 10^\circ$

8. $\cos 38^\circ$

9. $\tan 44^\circ$

10. $\sin 74^\circ$

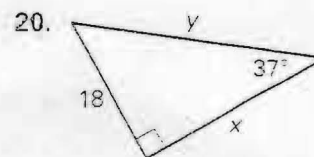
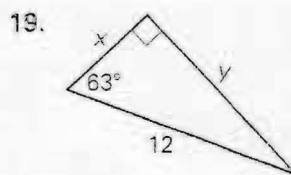
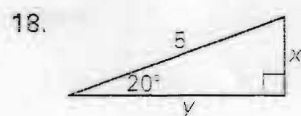
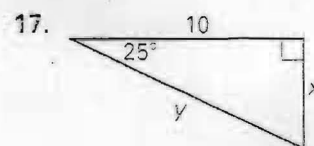
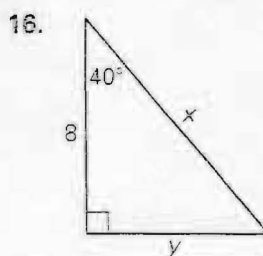
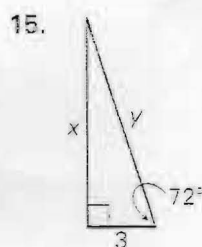
11. $\tan 65^\circ$

12. $\cos 63^\circ$

13. $\sin 57^\circ$

14. $\cos 33^\circ$

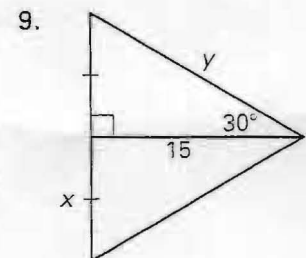
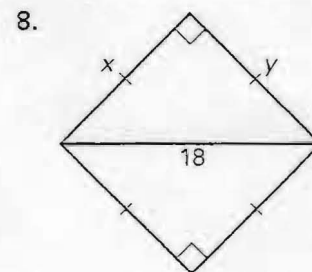
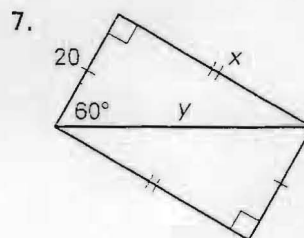
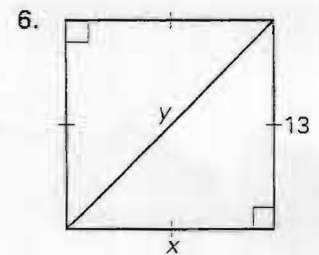
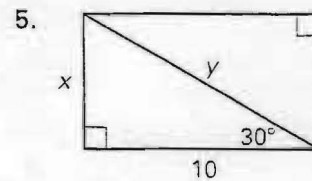
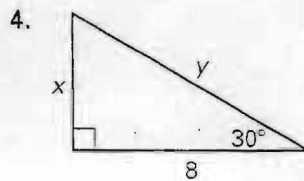
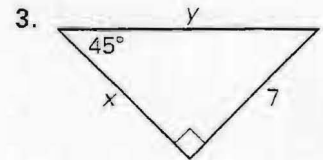
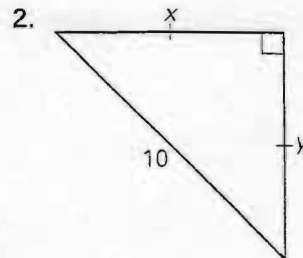
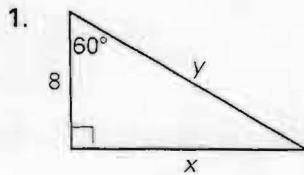
Find the value of each variable. Round decimals to the nearest tenth.



Practice B

For use with pages 551-557

Find the value of each variable. Write answers in simplest radical form.



Sketch the figure that is described. Find the requested length. Round decimals to the nearest tenth.

10. The perimeter of a square is 20 centimeters. Find the length of a diagonal.

11. The altitude of an equilateral triangle is 18 inches. Find the length of a side.

12. The hypotenuse of an isosceles right triangle is 16 centimeters. Find the length of a side.

13. The length of the diagonal of a square is $\frac{5\sqrt{2}}{2}$. Find the length of a side.

13. side ≈ 11.3 cm

10. diagonal ≈ 7.1 cm

11. side ≈ 20.8 inches

9. $x = 5\sqrt{3}$, $y = 10\sqrt{3}$

8. $x = 9\sqrt{2}$, $y = 9\sqrt{2}$

6. $x = 13$, $y = 13\sqrt{2}$

7. $x = 20\sqrt{3}$, $y = 40$

5. $x = \frac{3}{10\sqrt{3}}$, $y = \frac{3}{20\sqrt{3}}$

3. $x = 7$, $y = 7\sqrt{2}$

4. $x = \frac{8\sqrt{3}}{3}$, $y = \frac{16\sqrt{3}}{3}$

2. $x = 5\sqrt{2}$, $y = 5\sqrt{2}$