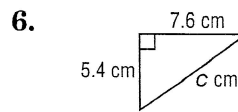
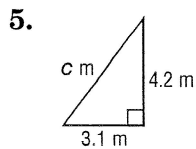
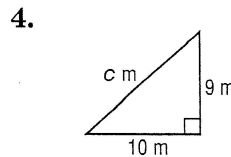
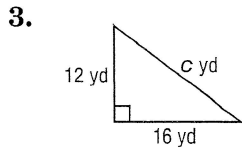
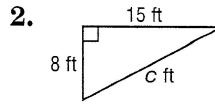
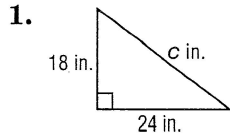


10-4 Skills Practice

The Pythagorean Theorem

Find the length of the hypotenuse of each right triangle. Round to the nearest tenth, if necessary.



If c is the measure of the hypotenuse, find each missing measure. Round to the nearest tenth, if necessary.

7. $a = ?$, $b = 24$, $c = 26$

8. $a = 16$, $b = ?$, $c = 34$

9. $a = 24$, $b = ?$, $c = 40$

10. $a = 5$, $b = ?$, $c = 7$

11. $a = ?$, $b = 32$, $c = 39$

12. $a = 21$, $b = ?$, $c = 48$

13. $a = 18$, $b = 29$, $c = ?$

14. $a = ?$, $b = 36$, $c = 49$

15. $a = 8$, $b = ?$, $c = 12$

16. $a = 14$, $b = 21$, $c = ?$

17. $a = ?$, $b = 30$, $c = 40$

18. $a = 4$, $b = ?$, $c = 7$

19. $a = 13$, $b = 18$, $c = ?$

20. $a = ?$, $b = 55$, $c = 75$

The lengths of three sides of a triangle are given. Determine whether each triangle is a right triangle.

21. 14 m, 5 m, 4 m

22. 3 in., 4 in., 5 in.

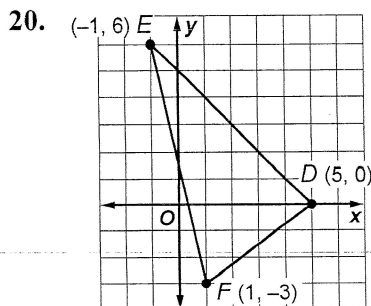
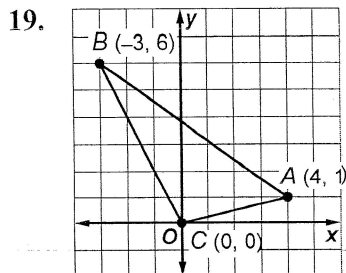
10-5 Skills Practice

The Distance Formula

Find the distance between each pair of points. Round to the nearest tenth, if necessary.

- | | |
|---------------------------|--------------------------|
| 1. $A(2, 4), B(1, 3)$ | 2. $P(5, 10), Q(-1, 1)$ |
| 3. $G(3, -1), H(5, 6)$ | 4. $C(-2, -6), D(-7, 1)$ |
| 5. $E(-6, 2), F(4, 1)$ | 6. $J(-5, -3), K(4, -2)$ |
| 7. $M(-5, -5), N(3, -4)$ | 8. $V(4, 7), W(1, 6)$ |
| 9. $X(4, 6), Y(-3, -7)$ | 10. $R(0, 0), S(-1, -1)$ |
| 11. $T(7, 3), U(-2, -2)$ | 12. $A(6, 2), B(1, 3)$ |
| 13. $V(2, -6), W(4, -7)$ | 14. $C(6, 2), D(4, 7)$ |
| 15. $X(7, 8), Y(-7, 1)$ | 16. $E(7, 3), F(-1, 4)$ |
| 17. $A(5, 10), B(-4, -3)$ | 18. $G(-6, 2), H(2, 4)$ |

GEOMETRY Classify each triangle by its sides. Then find the perimeter of each triangle. Round to the nearest tenth.



GEOMETRY The coordinates of the vertices of a triangle are given. Find the perimeter of each triangle. Round to the nearest tenth, if necessary.

- | | |
|---|---|
| 21. $J(4, 5), K(-2, 2),$ and $L(-4, 4)$ | 22. $E(3, 5), F(4, 8),$ and $G(-1, 6)$ |
| 23. $X(8, 1), Y(3, 3),$ and $Z(5, -3)$ | 24. $A(-3, 5), B(-3, -1),$ and $C(7, -1)$ |