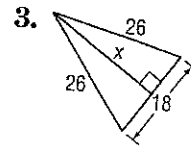
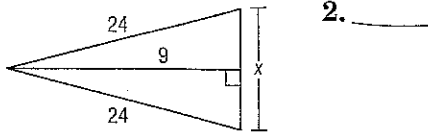


# 7-2 Practice

## The Pythagorean Theorem and Its Converse

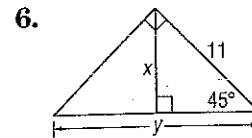
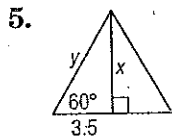
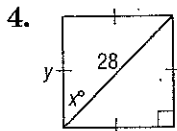
Find  $x$ .



# 7-3 Practice

## Special Right Triangles

Find  $x$  and  $y$ .

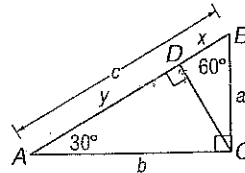


For Exercises 7-9, use the figure at the right.

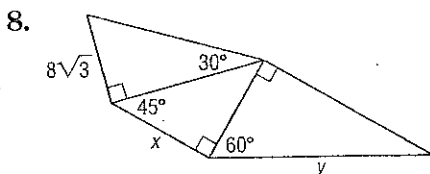
7. If  $a = 4\sqrt{3}$ , find  $b$  and  $c$ .

8. If  $x = 3\sqrt{3}$ , find  $a$  and  $CD$ .

9. If  $a = 4$ , find  $CD$ ,  $b$ , and  $y$ .



10. The perimeter of an equilateral triangle is 39 centimeters. Find the length of an altitude of the triangle.



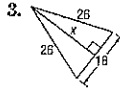


### 7-2 Practice (Average)

#### The Pythagorean Theorem and Its Converse

Find  $x$ .

2.1  $6\sqrt{55}$



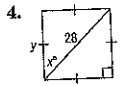
$\sqrt{595} \approx 24.4$



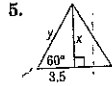
### 7-3 Practice (Average)

#### Special Right Triangles

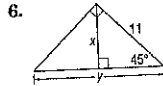
Find  $x$  and  $y$ .



45,  $14\sqrt{2}$



$3.5\sqrt{3}$ , 7



$\frac{11\sqrt{2}}{2}$ ;  $11\sqrt{2}$

For Exercises 7-9, use the figure at the right.

7. If  $a = 4\sqrt{3}$ , find  $b$  and  $c$ .

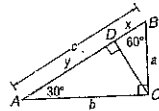
$b = 12$ ,  $c = 8\sqrt{3}$

8. If  $x = 3\sqrt{3}$ , find  $a$  and  $CD$ .

$a = 6\sqrt{3}$ ,  $CD = 9$

9. If  $a = 4$ , find  $CD$ ,  $b$ , and  $y$ .

$CD = 2\sqrt{3}$ ,  $b = 4\sqrt{3}$ ,  $y = 6$



10. The perimeter of an equilateral triangle is 39 centimeters. Find the length of an altitude of the triangle.

$6.5\sqrt{3}$  in. or about 11.26 in.

ANSWERS (Lesson 7-3)

8.  $x = 12\sqrt{2}$ ,  
 $y = 24\sqrt{2}$