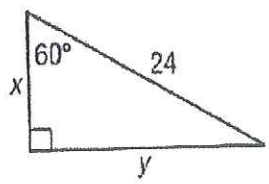
## 7.3 Practice Worksheet

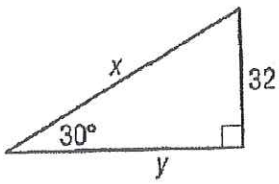
**Name** _____

**Find $x$ and $y$.**

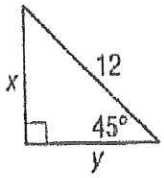
**1.**



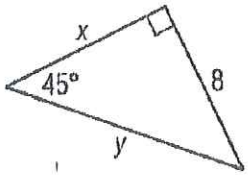

**2.**



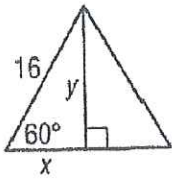

**3.**



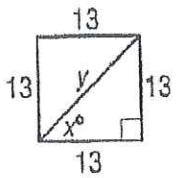

**4.**



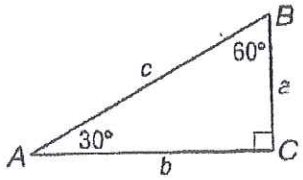

**5.**




**6.**




**For Exercises 7–9, use the figure at the right.**

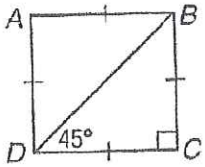



**7.** If $a = 11$, find $b$ and $c$.

**8.** If $b = 15$, find $a$ and $c$.

**9.** If $c = 9$, find $a$ and $b$.

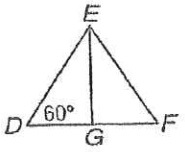
**For Exercises 10 and 11, use the figure at the right.**




**10.** The perimeter of the square is 30 inches. Find the length of $\overline{BC}$.

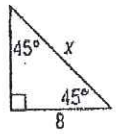
**11.** Find the length of the diagonal $\overline{BD}$.

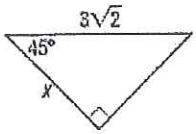
**12.** The perimeter of the equilateral triangle is 60 meters. Find the length of an altitude.

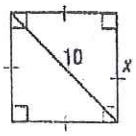


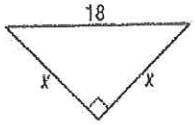

**13.** $\triangle GEC$ is a 30°-60°-90° triangle with right angle at $E$, and $\overline{EC}$ is the longer leg. Find the coordinates of $G$ in Quadrant I for $E(1, 1)$ and $C(4, 1)$.

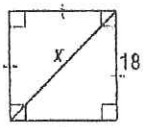
Find $x$.

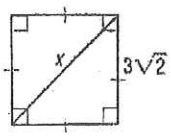
1. 


2. 


3. 


4. 


5. 

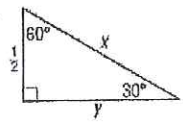

6. 

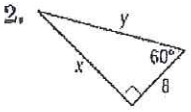

7. Find the perimeter of a square with diagonal 12 centimeters.

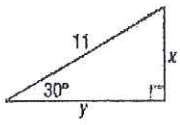
8. Find the diagonal of a square with perimeter 20 inches.

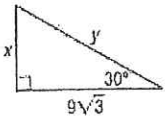
9. Find the diagonal of a square with perimeter 28 meters.

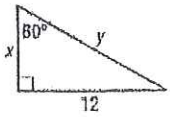
Find $x$ and $y$.

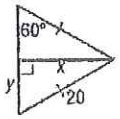
1. 


2. 


3. 


4. 


5. 


6. 


7. The perimeter of an equilateral triangle is 32 centimeters. Find the length of an altitude of the triangle to the nearest tenth of a centimeter.

8. An altitude of an equilateral triangle is 8.3 meters. Find the perimeter of the triangle to the nearest tenth of a meter.