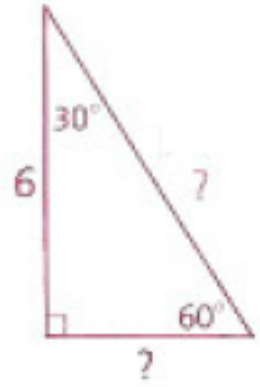
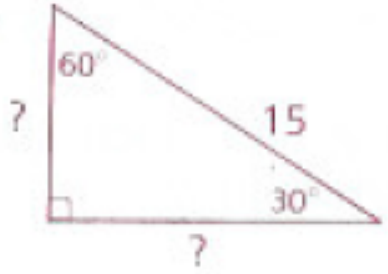
# Homework p. 408: 2, 4, 8, 19, 22

**2** Find the two missing sides of each triangle. (Hint: These are a bit harder, and you may want to put x, $x\sqrt{3}$, and 2x on the proper sides as shown in the sample problems.)

**a**

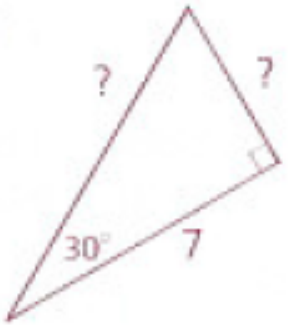



**b**



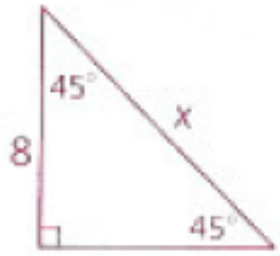

**c**


**d**

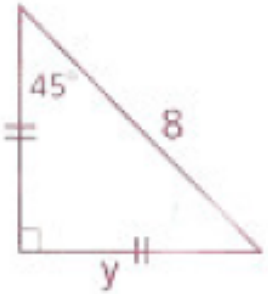



**4** Solve for the variable in each of these 45°-45°-90° triangles.

**a**

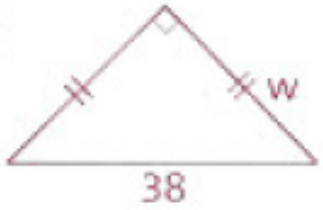



**b**



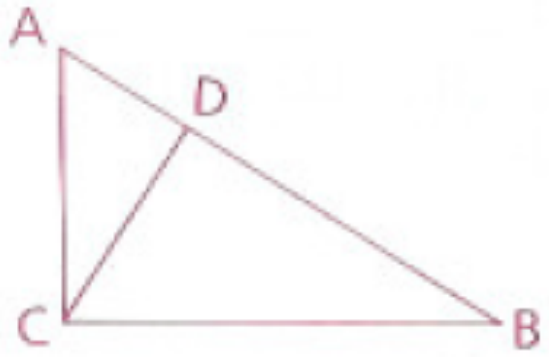

**c**


**d**

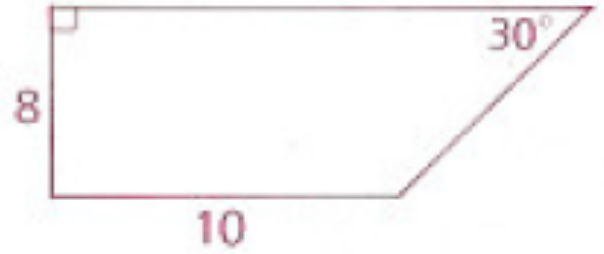


**8** Given: $\overline{AC} \perp \overline{BC}$, $\overline{CD} \perp \overline{AB}$, $\angle B = 30°$, $BC = 8\sqrt{3}$

Find: CD




**19** Find, to the nearest tenth, the perimeter of the trapezoid.




**22** Find the altitude to the base of the isosceles triangle shown.