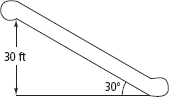
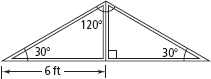
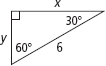
**Draw a Diagram and solve each problem below.**

1. An architect is planning a new town square. The square has sides that are 20 ft  
   long. A walkway will also cut diagonally through the square. How long will the  
   walkway be? Round to the nearest tenth of a foot.
2. Charlene made a square quilt block by piecing together four congruent  
   isosceles right triangles. The diagonal of the square is 6 in. What is the  
   perimeter of the square in simplest radical form?
3. A square has a side length of 11 meters. What is the length of the diagonal  
   of the square?
4. A square has a diagonal of 15 cm. What is the length of a side? Express in  
   simplest radical form.
5. **Reasoning** A classmate said that the perimeter of an isosceles right triangle  
   can never be a whole number. Is this true? Explain.
6. The top of a giant slide is 30 ft off the ground.  
   The slide rises at a 30° angle. To the nearest  
   whole foot, what is the distance down the slide?
7. The frame for a garage roof is shown at the right.  
   How long is each of the top pieces? Round to the  
   nearest tenth of a foot.

**Review: Find the values of the variables in the diagrams below.**

tr 2

|  |  |  |  |
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|  | **15.** | **16.** | **17.** |