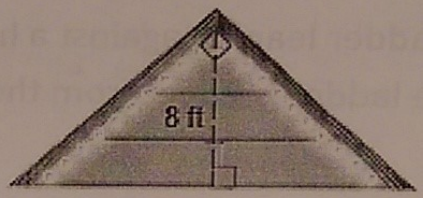
9. A 40 foot ladder is leaning against a building. The foot of the ladder is 32 feet from the building. Find the angle that the ladder makes with the building.

10. A 40 foot ladder which is leaning against a wall reaches the wall at a point 36 feet from the ground. Find the angle that the ladder makes with the ground.

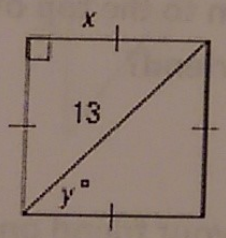
Use Properties of Special Right Triangles to solve the following problems: {30-60-90 and 45-45-90 ratio of sides}

27. EVENT PLANNING Grace is having a party, and she wants to decorate the gable of the house as shown. The gable is an isosceles right triangle and she knows that the height of the gable is 8 feet. What length of lights will she need to cover the gable below the roof line?

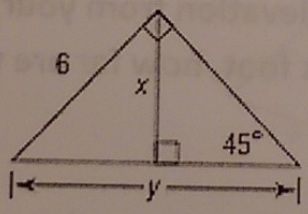


Find x and y.

28.



29



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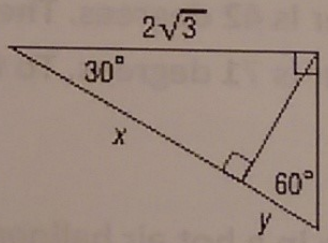

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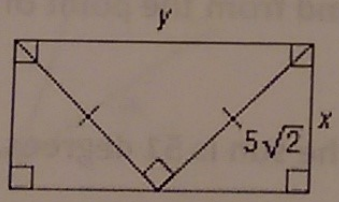

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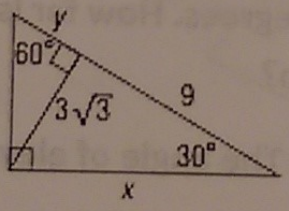

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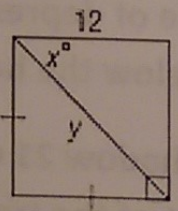
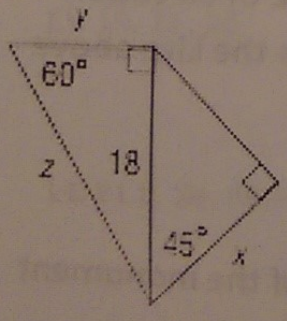


. Find x, y, and z.



38. Each triangle in the figure is a 45°-45°-90° triangle. Find x.