

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.



$$\cos^{-1}\left(\frac{32}{40}\right) = 36.87^\circ$$

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.



$$\sin^{-1}\left(\frac{36}{40}\right) = 64.16^\circ$$

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?



22.63 ft

Find x and y.

28.

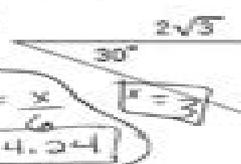


$x = \frac{13\sqrt{2}}{2}$ or 9.19
 $\text{hyp} = \text{leg} \cdot \sqrt{2}$
 $18.5 = x\sqrt{2}$
 $\sin 45 = \frac{x}{13}$



$\sqrt{2} \cdot 6 = \text{leg} \cdot \sqrt{2}$
 $x = 2\sqrt{2}$
 $\cos 45 = \frac{x}{6}$
 $y = 8.49$ or $6\sqrt{2}$

30.



$2\sqrt{3} = 2 \cdot \text{short leg}$
 $x = \sqrt{3} \cdot \sqrt{3}$
 $\sqrt{3} = \sqrt{3} \cdot y$
 $y = 1$

31.



$\text{hyp} = \sqrt{2} \cdot 5\sqrt{2}$
 $5\sqrt{2} = \sqrt{2} \cdot x$
 $y = 10$
 $x = 5$

32.



$3\sqrt{3} = \sqrt{3} \cdot x$
 $3 = x$
 $x = 2 \cdot 3\sqrt{3}$
 $x = 6\sqrt{3}$

33.



$\text{hyp} = \text{leg} \cdot \sqrt{2}$
 $y = 12 \cdot \sqrt{2}$
 $x = 45^\circ$

Find x, y, and z.

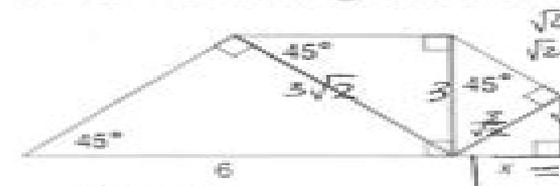


$\sqrt{2} \cdot 18 = \frac{x \cdot \sqrt{2}}{\sqrt{2}}$
 $\frac{18\sqrt{2}}{2}$
 $x = 9\sqrt{2}$
 $y = 6\sqrt{3}$

$\frac{\sqrt{3}}{\sqrt{2}} \cdot 18 = \frac{y \cdot \sqrt{3}}{\sqrt{3}}$

$\frac{18\sqrt{3}}{3} = z = 12\sqrt{3}$

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



$\frac{\sqrt{2} \cdot 3}{\sqrt{2} \cdot \sqrt{2}} = \sqrt{2} \cdot x$
 $\frac{3\sqrt{2}}{2} = \sqrt{2} \cdot x$
 $x = 1.5$ or $\frac{3}{2}$

$\sqrt{2} \cdot 6 = \sqrt{2} \cdot \text{leg}$
 $\frac{6\sqrt{2}}{2} = \text{leg}$

$3\sqrt{2} = \sqrt{2} \cdot \text{leg}$
 $3 = \text{leg}$

$\frac{3}{\sqrt{2}} = \sqrt{2} \cdot \text{leg}$

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**I. A. Mekeel, Charles Esterly
Severn, Stephen B. Hopkins**

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Your Mathematics Standards Companion, High School Frederick L. Dillon, W. Gary Martin, Basil M. Conway
IV, Marilyn E. Strutchens, 2018-02-06 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number and quantity algebra functions geometry and statistics and probability building from eighth grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How content standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful high school mathematics curriculum in any state or district

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