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.

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

40

32

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.

36 40

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

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?

$22.63 ft$

8 ft $8\sqrt{2}$

$hyp = 8 \cdot \sqrt{2}$

Find x and y.

$= \frac{13\sqrt{2}}{2}$ or 9.19

28.

x

13

45 45

y = 45

$hyp = leg \cdot \sqrt{2}$
$13 = x\sqrt{2}$
$\sin 45 = \frac{x}{13}$

29

$\sqrt{2} \cdot 6 = leg \sqrt{2}$
6   $6-\sqrt{2}$

x

45   45°

$x = 3\sqrt{2}$

$y = 8.48$
or $6\sqrt{2}$

30.

$2\sqrt{3}$
30°

$\sqrt{3}$ 60°

y

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

$\cos 45 = \frac{x}{6}$

$x = 4.24$

31.

y

$5\sqrt{2}$ x

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

$5\sqrt{2} = \sqrt{2} \cdot x$
$x = 5$

32.

y   60°

$3\sqrt{3}$

60   30°

x

9

$3\sqrt{3} = \sqrt{3} \cdot y$
$3 = y$

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

33.

12   45

y

$hyp = leg \cdot \sqrt{2}$
$y = 12\sqrt{2}$
$x = 45°$

Find x, y, and z.

y

60°

45

18

30   45°   x

z

$\sqrt{2} \cdot 18 = x \cdot \sqrt{2}$
$\sqrt{2}$ $\frac{\sqrt{2}}{\sqrt{2}}$

$\frac{18\sqrt{2}}{2}$

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

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

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

45°

$3\sqrt{2}$ 3   45°

z

45°   45°

6

45°

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

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

$\frac{\sqrt{2}}{\sqrt{2}} 6 = \sqrt{2} \cdot leg$ $3\sqrt{2} = \sqrt{2} \cdot leg$ $\frac{3}{\sqrt{2}} = \sqrt{2} \cdot leg$
$\frac{6\sqrt{2}}{2}$ $3 = leg$ $\frac{\sqrt{2}}{\sqrt{2}}$

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