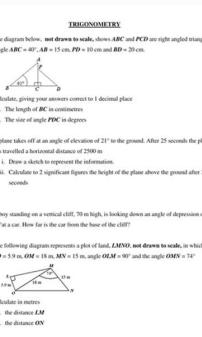


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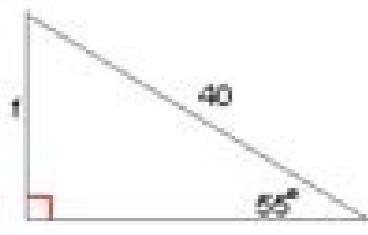


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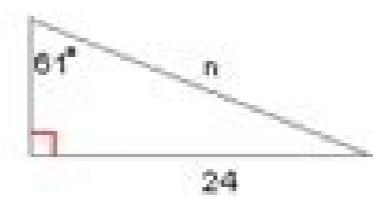
Solving Right Triangles

Find the side indicated by a variable. Round to the nearest tenth.

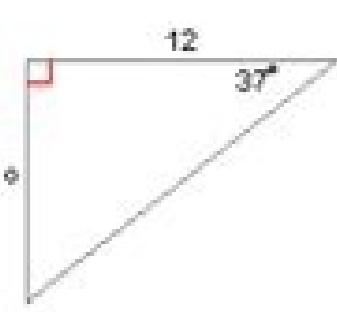
1) $f =$ _____



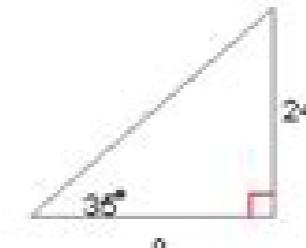
2) $y =$ _____



3) $o =$ _____



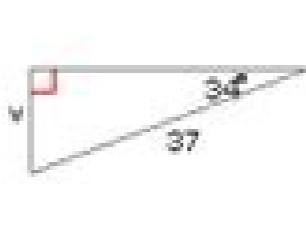
4) $o =$ _____



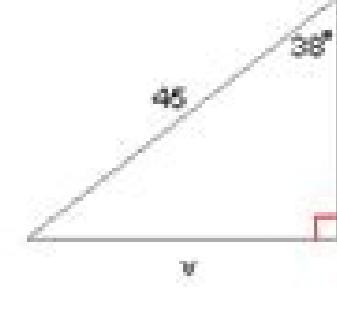
5) $j =$ _____



6) $v =$ _____



7) $v =$ _____



8) $f =$ _____



[Math-Aids.Com](https://www.math-aids.com)



12)	13)	14)
$\tan x = \frac{25}{7\sqrt{3}}$	$\sin x = \frac{8}{11\sqrt{3}}$	$\cot x = \frac{25}{10\sqrt{3}}$
$\tan^{-1}(\frac{25}{7\sqrt{3}})$	$\sin^{-1}(\frac{8}{11\sqrt{3}})$	$\cot^{-1}(\frac{25}{10\sqrt{3}})$
$x = 33.2^\circ$	$x = 29.4^\circ$	$x = 70.5^\circ$
15)	16)	17)
$\sin x = \frac{8}{5\sqrt{3}}$	$\sin x = \frac{8}{4\sqrt{3}}$	$\cos x = \frac{8}{3\sqrt{3}}$
$x = 60.5^\circ$	$x = 63.4^\circ$	$x = 10.5^\circ$
18)	19)	20)
$\sin x = \frac{12}{5\sqrt{3}}$	$\cos x = \frac{12}{4\sqrt{3}}$	$\tan x = \frac{12}{3\sqrt{3}}$
$x = 72.2^\circ$	$x = 63.4^\circ$	$x = 70.5^\circ$

BYJU'S R D Sharma Solutions For Class 10 Maths Chapter 12 - Some Applications of Trigonometry

25. The angle of depression of the top and bottom of a 8 m tall building from the top of another multistorey building are 30° and 45° . Find the height of the multistorey building and the distance between the two buildings.
 Solution:

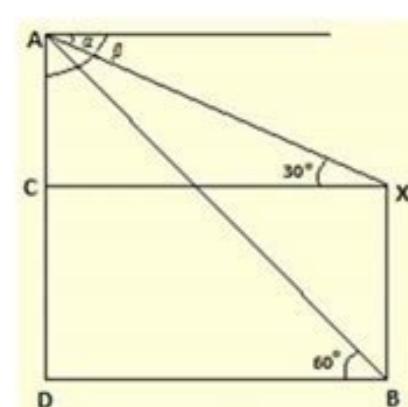
Let height of multistorey building 'h' m = AD
 Height of the tall building = 8 m = BC
 Angle of depression of top of the tall building from the multistorey building = 30°
 Angle of depression of bottom of the tall building from the multistorey building = 30°
 And, ED = x m = distance between the two buildings = x m = ED
 So, BC = x and CD = 8 m. [As BCDE forms a rectangle]
 AD = AC + CD
 So, AD = (h + 8) m

From the fig. we have
 In $\triangle ACD$
 $\tan 45^\circ = AD/ED$
 $1 = h/x$
 $h = x$
 $h = \sqrt{3}(x - 8)$ [using (i)]
 $h = 8\sqrt{3}(3-1)$
 Rationalising the denominator by $(\sqrt{3}+1)$, we have
 $h = 8\sqrt{3}\sqrt{3+1}/(\sqrt{3}-1)$
 $h = 4\sqrt{3}(3+1)$

<https://byjus.com>

Q59. There are two temples one on each bank of a river opposite to one other. One temple is 50m high. From the top of this temple, the angles of depression of the top and foot of the other temple are 30° and 60° respectively. Find the width of the river and the height of the other temple.

Sols:



Height of the temple 1 (AB) = 50m

Angle of depression of top of temple 2, $\alpha = 30^\circ$; $a = 30^\circ$

Angle of depression of bottom of temple 2, $\beta = 60^\circ$; $b = 60^\circ$

Height of the temple 2 (CD) = 'h' m

Width of the river = BD = 'x' m

The above data is represented in form of figure as shown

In right angle triangle if one of the included angle is θ

Then $\tan \theta = \frac{\text{Opposite side}}{\text{Adjacent side}}$

Here $BD = CX, CD = BX$

$\tan \alpha = AX/CX \tan \alpha = \frac{AX}{CX}$ $\tan 30^\circ = AX \tan 30^\circ = \frac{AX}{CX}$

$CX = A \times \sqrt{3} \times 50 \times \sqrt{3}$

$\tan \beta = AB/BX \tan \beta = \frac{AB}{BX}$ $\tan 60^\circ = BC \tan 60^\circ = \frac{BC}{BX}$

$BX = 50\sqrt{3} \frac{50}{\sqrt{3}}$

$= 50\sqrt{3} \frac{50}{\sqrt{3}}$

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