

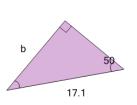
## mobius

## **Trigonometry - Solve Side Lengths from Diagrams**



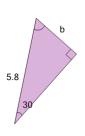
Solve for the side length with trigonometry

$$\overset{\scriptscriptstyle\mathsf{A}}{b} = 9.2\overset{\scriptscriptstyle\mathsf{B}}{b} = 11.8\overset{\scriptscriptstyle\mathsf{B}}{}$$



$$\overset{ extsf{c}}{b}=$$
 10.5  $\overset{ extsf{d}}{b}=$  14.4

$$\overset{ extsf{E}}{b}=15.7\overset{ extsf{F}}{b}=13.1$$

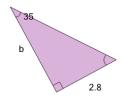


Solve for the side length with trigonometry

$^{A}\;b=3.5$	$^{ extsf{B}}$ $b=2.3$
$^{ extsf{c}}$ $b=2.9$	$^{ t D}$ $b=$ 4.1
$^{E}$ $b=3.2$	$^{ extsf{F}}$ $b=2.0$

3

Solve for the side length with trigonometry



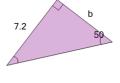
$^{A} b = 2.4$	b = 2.8
<b>—</b> ··	<b>_</b>

$$^{ extsf{C}} \ b = extsf{3.2} \ \ \ ^{ extsf{D}} \ b = extsf{4.0}$$

$$^{\mathsf{E}}$$
  $b=\mathsf{5.2}$   $^{\mathsf{F}}$   $b=\mathsf{4.8}$ 

4

Solve for the side length with trigonometry



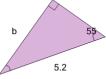
$^{A} b = 7.2$	$^{\sf B} \; b = 7.9$

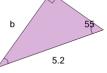
$$^{ extsf{C}} b = 4.2 \quad ^{ extsf{D}} b = 3.6$$

$$^{\sf E} \ b = {\sf 4.8} \quad ^{\sf F} \ b = {\sf 6.0}$$

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Solve for the side length with trigonometry



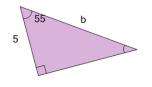


<sup>A</sup> 
$$b = 6.0$$
 <sup>B</sup>  $b = 4.3$ 

$$^{ extsf{C}}$$
  $b=3.8$   $^{ extsf{D}}$   $b=5.5$ 

$$^{ t E}$$
  $b=$  3.4  $^{ t F}$   $b=$  5.1

6 Solve for the side length with trigonometry



$$\stackrel{\scriptscriptstyle\mathsf{A}}{b} = \mathsf{5.2} \stackrel{\scriptscriptstyle\mathsf{B}}{b} = \mathsf{9.6}$$

$$\overset{\circ}{b}=8.7\overset{\circ}{b}=$$
 12.2

$$b = 11.3b = 6.1$$

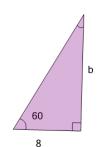
Solve for the side length with trigonometry

$$\overset{\circ}{b}=9.0\overset{\circ}{b}=10.0$$

$$b = 14.0 b = 12.0$$

$$\stackrel{\scriptscriptstyle\mathsf{E}}{b} = 11.0 \stackrel{\scriptscriptstyle\mathsf{F}}{b} = 13.0$$

Solve for the side length with trigonometry



$$b = 16.6 \, b = 12.5$$

$$\ddot{b} = 19.4 \, \ddot{b} = 15.2$$

$$b = 11.1b = 13.9$$

14.3