



Math worksheet on 'Trigonometry - Solve Angles from Values (Level 1)'. Part of a broader unit on 'Trigonometry Fundamentals - Practice'

Learn online: [app.mobius.academy/math/units/trigonometry\\_fundamentals\\_practice/](http://app.mobius.academy/math/units/trigonometry_fundamentals_practice/)

<b>1</b> Solve for the angle in degrees given the values  $hyp = 20$ $adj = 10$ $\sigma = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\sigma = 80^\circ$	$\sigma = 70^\circ$	$\sigma = 60^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\sigma = 45^\circ$	$\sigma = 55^\circ$	$\sigma = 40^\circ$

<b>2</b> Solve for the angle in degrees given the values  $hyp = 15.6$ $adj = 10$ $\beta = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\beta = 55^\circ$	$\beta = 60^\circ$	$\beta = 45^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\beta = 50^\circ$	$\beta = 40^\circ$	$\beta = 70^\circ$

<b>3</b> Solve for the angle in degrees given the values  $hyp = 11$ $adj = 9$ $\alpha = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\alpha = 15^\circ$	$\alpha = 55^\circ$	$\alpha = 25^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\alpha = 30^\circ$	$\alpha = 35^\circ$	$\alpha = 20^\circ$

<b>4</b> Solve for the angle in degrees given the values  $opp = 2.8$ $adj = 4$ $\sigma = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\sigma = 50^\circ$	$\sigma = 20^\circ$	$\sigma = 35^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\sigma = 15^\circ$	$\sigma = 45^\circ$	$\sigma = 55^\circ$

<b>5</b> Solve for the angle in degrees given the values  $opp = 8$ $adj = 8$ $\sigma = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\sigma = 35^\circ$	$\sigma = 60^\circ$	$\sigma = 65^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\sigma = 25^\circ$	$\sigma = 40^\circ$	$\sigma = 45^\circ$

<b>6</b> Solve for the angle in degrees given the values  $adj = 10$ $opp = 7$ $\alpha = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\alpha = 35^\circ$	$\alpha = 45^\circ$	$\alpha = 30^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\alpha = 40^\circ$	$\alpha = 25^\circ$	$\alpha = 50^\circ$

<b>7</b> Solve for the angle in degrees given the values  $adj = 8$ $opp = 5.6$ $\theta = ?^\circ$	<b>a</b>	<b>b</b>	<b>c</b>
	$\theta = 35^\circ$	$\theta = 50^\circ$	$\theta = 30^\circ$
	<b>d</b>	<b>e</b>	<b>f</b>
	$\theta = 20^\circ$	$\theta = 40^\circ$	$\theta = 55^\circ$