



Trigonometry - Calculating Angles from Ratio Fractions and Trig Identities

<p>1 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{opp}}{\text{hyp}} = \frac{5}{7.07}$	A 65 deg	B 30 deg	<p>2 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{opp}}{\text{adj}} = \frac{1.4}{2}$	A 45 deg	B 15 deg
	C 50 deg	D 45 deg		C 20 deg	D 25 deg
	E 55 deg	F 25 deg		E 55 deg	F 35 deg
<p>3 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{opp}}{\text{adj}} = \frac{0.53}{3}$	A 30 deg	B 20 deg	<p>4 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{opp}}{\text{hyp}} = \frac{2}{2.07}$	A 70 deg	B 85 deg
	C 5 deg	D 15 deg		C 90 deg	D 60 deg
	E 0 deg	F 10 deg		E 75 deg	F 55 deg
<p>5 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{opp}}{\text{hyp}} = \frac{1.39}{8}$	A 30 deg	B 10 deg	<p>6 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{opp}}{\text{adj}} = \frac{4}{6.93}$	A 35 deg	B 25 deg
	C 20 deg	D 15 deg		C 45 deg	D 15 deg
	E 5 deg	F 0 deg		E 50 deg	F 30 deg
<p>7 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{adj}}{\text{hyp}} = \frac{8}{23.39}$	A 85 deg	B 70 deg	<p>8 What angle (in degrees) has this ratio of sides?</p> $\frac{\text{adj}}{\text{hyp}} = \frac{4}{5.22}$	A 55 deg	B 30 deg
	C 90 deg	D 50 deg		C 50 deg	D 20 deg
	E 55 deg	F 80 deg		E 40 deg	F 45 deg