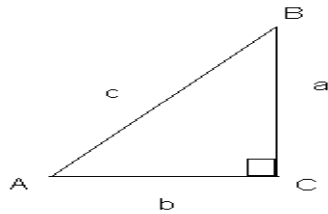


Year 11 Trig Ratios Worksheet



1. Find $(\tan 60 + \tan 30) / (\tan 60 - \tan 30)$.
2. If $\tan \theta = 4/3$ Calculate $\sin^2 \theta - \cos^2 \theta$.
3. If $\sin \theta = 3/5$, find $\tan \theta$.
4. If $\sin 30^\circ = 1/2$, find the $\sin 210^\circ$.
5. Simplify $\sqrt{(1 - \sin x)/(1 + \sin x)}$.
- 6.



In the figure above, $\triangle ABC$ is a right triangle. If the angle $A = 60^\circ$ and side "b" = 5 cm, find side "a".

7. The shadow of a pole is 10m. If the height of the pole is $10\sqrt{3}$ m, find the angle of elevation.
8. Prove that $\sin^2 \theta + \cos^2 \theta = 1$
9. Find the value of angle x if $\sin x = \cos x$.