

Sum and Difference Formulas

Algebra 5/Trig

February 11, 2010

Use the sum and difference formulas to find **exact** values of $\sin \theta$, $\cos \theta$ and $\tan \theta$ for the following angles (the first five are in degrees, the rest are in radians). **DO NOT USE A CALCULATOR!**

1. $\theta = 75^\circ$

2. $\theta = 15^\circ$

3. $\theta = 135^\circ$

4. $\theta = 105^\circ$

5. $\theta = 120^\circ$

6. $\theta = \frac{\pi}{12}$

7. $\theta = \frac{5\pi}{12}$

8. $\theta = \frac{5\pi}{6}$

9. $\theta = \frac{7\pi}{12}$

10. $\theta = \frac{2\pi}{3}$