Edexcel AS Mathematics Trigonometry



Section 2: Trigonometric equations

Crucial points

- Check that the roots are in the range asked for Make sure that you check what range the roots should lie in.
- 2. Remember to factorise instead of cancelling Never cancel terms like $\sin\theta$ or $\cos\theta$. Always factorise instead. For example, in an equation like $\sin\theta \sin\theta\cos\theta = 0$, do not cancel out the term $\sin\theta$ because you will lose the roots to the equation $\sin\theta = 0$. Instead, take out the factor $\sin\theta$ to give $\sin\theta(1-\cos\theta) = 0$.
- 3. You must be able to draw trigonometric graphs accurately and know their properties

 Make sure you know how to sketch the graphs of $y = \cos x$, $y = \sin x$ and $y = \tan x$ and their properties.
- 4. Be careful when solving equations of the form $\sin ax = k$ Think about the number of roots you expect to obtain.

