Section 1: Trigonometric functions and identities

Crucial points

1. **Make sure you give roots to an equation in the range requested**
   When solving an equation make sure that you check:
   - what range the roots should lie in
   - whether the roots should be given in radians or degrees.

2. **Never cancel a factor in an equation**
   In an equation such as $\sin\theta - \sin\theta\cos\theta = 0$ never cancel out the term $\sin\theta$ because you will lose the roots to the equation $\sin\theta = 0$. So never cancel – always factorise.

3. **Work from one side of an identity which you are trying to prove**
   When trying to prove an identity only ever work with one side of the identity. Never try to rearrange it and cancel out terms.