**7C Double Angles Formulae**

*Sin2A ≡ 2SinACosA*

Key points:

If you see sin and cos multiplied together and both have the same angle -> this can be reduced using sin double angle formulae to a single trig function

Examples:

1. sinxcosx =
2. 6cosxsinx =
3. 5sin3xcos3x =

*Cos2A ≡ Co*

Key points:

If you see or this can be reduced using the cos double angle formulae to a single trig function

Examples:

1. =
2. =
3. =

*Tan 2A*

1. Use the double angle formulae to write the following expression as a single trigonometric ratio:
2. Given that and , eliminate and express in terms of .
3. Given that:

Find the exact value of: