

Trigonometric Identities Again!

We can now add to our list of basic identities.....

More Pythagorean Identities

Double Angle Identities

Example 1

If $\cos x = \frac{-4}{5}$, $\frac{\pi}{2} < x < \pi$, find the value of $\sin 2x$ and $\cos 2x$.

Prove the following identities:

Example 2

$$2\cos x \cos y = \cos(x + y) + \cos(x - y)$$

Example 3

$$2\cot 2x = \cot x - \tan x$$