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National 5 Maths Trigonometric Identities

SQA past paper and specimen paper questions and answers by topic

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Simplify

$$\tan^2 x° \cos^2 x° .$$

Show your working.   **2**

Answer:

$\sin^2 x$

Express $\sin x° \cos x° \tan x°$ in its simplest form.

Show your working.

2

Answer:

$\sin^2 x$

Expand and simplify

$$\left(\sin x° + \cos x°\right)^2.$$

Show your working. **2**

Answer:

$1 + 2\sin x \cos x$

Expand and simplify

$$\cos x° \left(\tan x° + 1 \right).$$ **2**

Show your working.

Answer:

$\sin x + \cos x$

Simplify $\dfrac{\sin x° + 2\cos x°}{\cos x°}$.

2

Answer:

$\tan x + 2$

Simplify $2\sin^2 x° + 2\cos^2 x°$.

Show your working. **2**

Answer:

2