

National 5 Maths Trigonometric Identities

SQA past paper and specimen paper questions and answers by topic

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National 5 Maths SQA 2016 Paper 1 Question 11



Simplify

 $\tan^2 x^\circ \cos^2 x^\circ$.

Show your working.

2

Answer:

 $\sin^2 x$

National 5 Maths SQA 2018 Paper 1 Question 18



2

Express $\sin x^{\circ} \cos x^{\circ} \tan x^{\circ}$ in its simplest form.

Show your working.

Answer:

 $\sin^2 x$

National 5 Maths SQA 2019 Paper 2 Question 17



Expand and simplify

 $(\sin x^{\circ} + \cos x^{\circ})^2$.

Show your working.

2

Answer:

 $1 + 2 \sin x \cos x$

National 5 Maths SQA 2021 Paper 2 Question 16



Expand and simplify

 $\cos x^{\circ} (\tan x^{\circ} + 1).$

2

Show your working.

Answer:

 $\sin x + \cos x$

National 5 Maths SQA 2022 Paper 2 Question 13



Simplify $\frac{\sin x^\circ + 2\cos x^\circ}{\cos x^\circ}$.	2
005 2	

Answer:

 $\tan x + 2$

National 5 Maths SQA 2023 Paper 2 Question 13



2

Simplify $2\sin^2 x^\circ + 2\cos^2 x^\circ$.

Show your working.

Answer:

2