

Name \_\_\_\_\_

Date \_\_\_\_\_

Year Group \_\_\_\_\_

### Verify the Identity

1.  $\sin x + \cos x \cot x = \csc x$

Left Hand Side Verification

$$\sin x + \cos x \cot x$$

Steps =>  $= \sin \zeta + \cos \zeta *$

\_\_\_\_\_

Drag the blocks to finish the steps

$$\frac{\cos \zeta}{\sin \zeta}$$

$$\frac{\sin \zeta}{\sin \zeta}$$

$$\sin \zeta$$

Steps =>  $= \sin \zeta +$

\_\_\_\_\_

$$\frac{\cos^2 \zeta}{\sin \zeta}$$

$$\frac{\sin^2 \zeta}{\sin \zeta}$$

$$\frac{\sin \zeta}{\cos \zeta}$$

Steps =>  $= * \sin \zeta +$

\_\_\_\_\_

$$\frac{\cos \zeta}{\cos \zeta}$$

$$\frac{\cos^2 \zeta}{\sin \zeta}$$

$$\frac{1}{\sin \zeta}$$

Steps =>  $= +$

\_\_\_\_\_

$$\csc \zeta$$

$$\frac{\cos^2 \zeta}{\cos \zeta}$$

$$\frac{\cos^2 \zeta}{\sin \zeta}$$

Steps =>  $=$

\_\_\_\_\_

$$\frac{\sin^2 \zeta}{\cos \zeta} \quad \sin^2 \zeta + \cos^2 \zeta$$

Put the extra 4 blocks here

Steps =>  $=$

\_\_\_\_\_

\_\_\_\_\_

Steps =>  $=$

\_\_\_\_\_

\_\_\_\_\_