

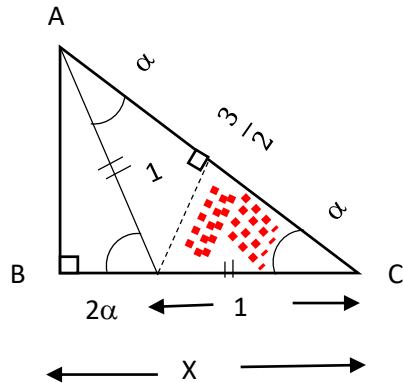
Trigo  $\sin 2\alpha = ?$

We want to check that

$$\sin 2\alpha = 2 \sin \alpha \cos \alpha$$

Example, we want to see

that the formula is correct



$$AB = \frac{3}{2} \sin \alpha$$

$$AB = 1 \sin 2\alpha$$

we want to see that

$$\frac{3}{2} \sin \alpha = 1 \cdot \sin 2\alpha$$

$$\frac{3}{2} = 2 \cos \alpha$$

$$\frac{AC}{2} = \frac{3}{2} : 2 = 1 \cdot \cos \alpha$$

$$\cos \alpha = \frac{3}{4}$$

the formula is OK