

MATEMÁTICAS 4º E.S.O.

BLOQUE 3: GEOMETRÍA

Clase 5

$$\textcircled{1} \quad \underline{\text{tg} \alpha} + \text{cotg} \alpha = \sec \alpha \cdot \text{cosec} \alpha$$

$$\textcircled{2} \quad (\text{sen} \alpha + \text{cos} \alpha)^2 = 1 + 2 \text{tg} \alpha \cdot \text{cos}^2 \alpha$$

$$\textcircled{3} \quad \frac{\text{sen} \alpha - \text{cos} \alpha}{\text{tg} \alpha - 1} = \text{cos} \alpha$$

$$\textcircled{4} \quad \frac{\text{sen} \alpha \cdot \text{cos} \alpha}{\text{sen}^2 \alpha - \text{cos}^2 \alpha} = \frac{\text{tg} \alpha}{\text{tg}^2 \alpha - 1}$$

$$\textcircled{5} \quad \text{tg}^2 \alpha - \text{sen}^2 \alpha = \text{tg}^2 \alpha \cdot \text{sen}^2 \alpha$$

$$\textcircled{6} \quad \frac{\sec \alpha - \text{cos} \alpha}{\text{cosec} \alpha - \text{sen} \alpha} = \text{tg}^3 \alpha$$

$$\textcircled{7} \quad \frac{\text{sen} \alpha + \text{cotg} \alpha}{\text{tg} \alpha + \text{cosec} \alpha} = \text{sen} \alpha \cdot \text{cotg} \alpha$$

$$\textcircled{8} \quad \sec^2 \alpha + \text{cosec}^2 \alpha = \sec^2 \alpha \cdot \text{cosec}^2 \alpha$$

$$\textcircled{9} \quad \frac{1}{1 + \text{cotg}^2 \alpha} = \frac{\text{tg}^2 \alpha}{\sec^2 \alpha}$$

$$\textcircled{10} \quad \frac{1 + \text{cotg} \alpha}{\text{sen} \alpha + \text{cos} \alpha} = \text{cosec} \alpha$$