

ACTIVIDAD SOBRE IDENTIDADES.

→ VERIFICA CADA IDENTIDAD.

$$1. \frac{\tan^2 \theta + 1}{\tan \csc^2 \theta} = \tan \theta$$

$$2. \frac{\csc \theta + 1}{\csc \theta - 1} = (\sec \theta + \tan \theta)^2$$

$$3. \frac{1}{1 + \cos \theta} + \frac{1}{1 - \cos \theta} = 2 \csc^2 \theta$$

$$4. \frac{\sec \theta + \tan \theta}{1 + \sec \theta} = \sec \theta$$

$$5. \frac{\sec \theta + \cos \theta}{\sec \theta - \cos \theta} = \frac{\sec \theta + \csc \theta}{\sec \theta - \csc \theta}$$

$$6. \frac{\tan \theta}{\sec \theta - 1} = \frac{\sec \theta + 1}{\tan \theta}$$

$$7. \frac{2 + \cot^2 \theta}{\csc^2 \theta} - 1 = \sec^2 \theta$$

$$8. \frac{\cot \theta}{\csc \theta + 1} = \sec \theta - \tan \theta$$

$$9. \frac{\sec \theta}{\tan \theta - \sec \theta} = \frac{1 + \cos \theta}{\sec^3 \theta}$$

$$10. \frac{1 - \cos \theta}{\sec \theta} + \frac{\sec \theta}{1 - \cos \theta} = 2 \csc \theta.$$