

$$\textcircled{13} \frac{2}{\sec x} = \frac{2 - \underline{2\sin^2 x}}{\cos x} \quad \underline{\text{GCF}}$$

$$2 \cos x = \textcircled{2} (1 - \sin^2 x)$$

$$= \frac{2 \cdot \cancel{\cos^2 x}}{\cancel{\cos x}}$$

$$= 2 \cos x$$

$$= 2 \cdot \frac{1}{\sec x} = \frac{2}{\sec x} \checkmark$$

$$\textcircled{16} \sec\theta - \sin\theta \cdot \tan\theta = \cos\theta$$

$$\frac{1}{\cos\theta} - \left( \frac{\sin\theta \cdot \sin\theta}{1 \cdot \cos\theta} \right)$$

$$\frac{1 - \sin^2\theta}{\cos\theta}$$

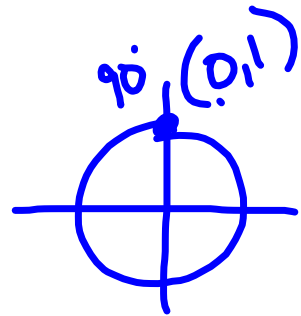
$$\frac{1 - \sin^2\theta}{\cos\theta}$$

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

$$\frac{\cos^2\theta}{\cancel{\cos\theta}}$$

$$\cos\theta = \cos\theta \quad \checkmark$$

$$\textcircled{17} \frac{\cos(90^\circ - \theta) = \sin \theta}{\sin 2\theta} = \frac{\sec \theta}{2}$$



$$\frac{\cos 90^\circ \cos \theta + \sin 90^\circ \sin \theta}{2 \sin \theta \cos \theta}$$

$$(\cancel{0}) \cos \theta + (1) \cdot \sin \theta$$

$$= \frac{\cancel{\sin \theta}}{2 \cancel{\sin \theta} \cos \theta}$$

$$\frac{1}{2 \cos \theta}$$

$$\frac{1}{2} \cdot \left( \frac{1}{\cos \theta} \right)$$

$$\frac{\sec \theta}{2}$$

$$\textcircled{24} \frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \tan \theta$$

$$\frac{2\sin\theta\cos\theta + \sin\theta}{2\cos^2\theta - 1 + \cos\theta + 1}$$

$$\frac{\sin\theta(2\cos\theta + 1)}{\cos\theta(2\cos\theta + 1)}$$

$$\tan \theta = \tan \theta \quad \checkmark$$