

$$1. \frac{\sec A}{\csc A} \quad (5)$$

$$= \frac{1}{\cos A} \cdot \frac{\sin A}{1} \quad (4)$$

$$= \frac{1}{\cos A} \cdot \frac{\sin A}{1}$$

$$= \frac{\sin A}{\cos A} \quad (7)$$

$$= \tan A$$

$$2. \frac{\tan A}{1 - \sec A} \cdot \frac{1 + \sec A}{1 + \sec A}$$

$$\frac{\tan A (1 + \sec A)}{1 - \sec^2 A}$$

$$\frac{\tan A (1 + \sec A)}{-\tan^2 A}$$

$$\frac{1 + \sec A}{-\tan A}$$

$$-\frac{1}{\tan A} + \frac{\sec A}{-\tan A}$$

$$-\cot A + \frac{1}{\cos A} \cdot \frac{1}{-\sin A} \quad (6) \quad (5) \quad (7)$$

$$-\cot A - \frac{1}{\sin A \cos A}$$

$$\tan^2 A + 1 = \sec^2 A \quad (16)$$

$$1 - \sec^2 A = -\tan^2 A$$

$$-\cot A - \frac{1}{\cos A} \cdot \frac{\cos A}{\sin A}$$

$$-\cot A - \frac{1}{\sin A} \quad (4)$$

$$-\cot A - \csc A$$

$$3. \frac{1}{1 - \sin A} + \frac{1}{1 + \sin A}$$

$$\frac{1(1 + \sin A)}{(1 - \sin A)(1 + \sin A)} + \frac{1(1 - \sin A)}{(1 - \sin A)(1 + \sin A)}$$

$$\frac{1 + \sin A + 1 - \sin A}{(1 - \sin A)(1 + \sin A)}$$

$$\frac{2}{1 - \sin^2 A}$$

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

$$(5) \quad 2 \cdot \left(\frac{1}{\cos}\right)^2$$

$$2 \sec^2 A$$

$$(15) \quad \sin^2 + \cos^2 = 1$$

$$\cos^2 = 1 - \sin^2$$

$$2 \sec^2 + 7 \csc + 5$$

$$4. \frac{2 \sin^2 A + 7 \sin A + 5}{3 \sin^2 A + 2 \sin A - 1} \quad (KEYH)$$

$$\frac{(2 \sin A + 5)(\sin A + 1)}{(3 \sin A - 1)(\sin A + 1)}$$

$$\frac{2 \sin A + 5}{3 \sin A - 1}$$