

第3回 三角関数の性質(1)《例題》

$$\boxed{1} \quad (1) \quad -\frac{3}{8}$$

$$(2) \quad \frac{11}{16}$$

$$\boxed{2} \quad (1) \quad (\text{左辺}) = \frac{\cos^2 \theta + \sin^2 \theta}{\sin^2 \theta \cos^2 \theta}$$

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

$$(2) \quad (\text{左辺})$$

$$= \sin \theta \cdot \frac{\cos \theta - 1 + \sin^2 \theta}{\sin \theta \cos \theta (\cos \theta - 1)}$$

$$= \frac{\cos \theta - 1 + (1 - \cos^2 \theta)}{\cos \theta (\cos \theta - 1)}$$

$$= \frac{-\cos \theta (\cos \theta - 1)}{\cos \theta (\cos \theta - 1)} = -1$$