

次の極限を求めよ。

$$(1) \lim_{\theta \rightarrow 0} \frac{\tan 2\theta}{3\theta}$$

$$(3) \lim_{\theta \rightarrow 0} \frac{\theta \cos \theta}{\sin 3\theta}$$

$$(5) \lim_{\theta \rightarrow 0} \frac{\tan \theta}{\sin 2\theta}$$

$$(2) \lim_{\theta \rightarrow 0} \frac{\theta^2}{\sin 2\theta}$$

$$(4) \lim_{\theta \rightarrow 0} \frac{\theta + \sin \theta}{\tan \theta}$$

$$(6) \lim_{\theta \rightarrow 0} \frac{\theta^2 - \tan \theta}{\sin \theta}$$

$$\left[\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta} = \frac{\tan \theta}{\theta} = 1 \right]$$