

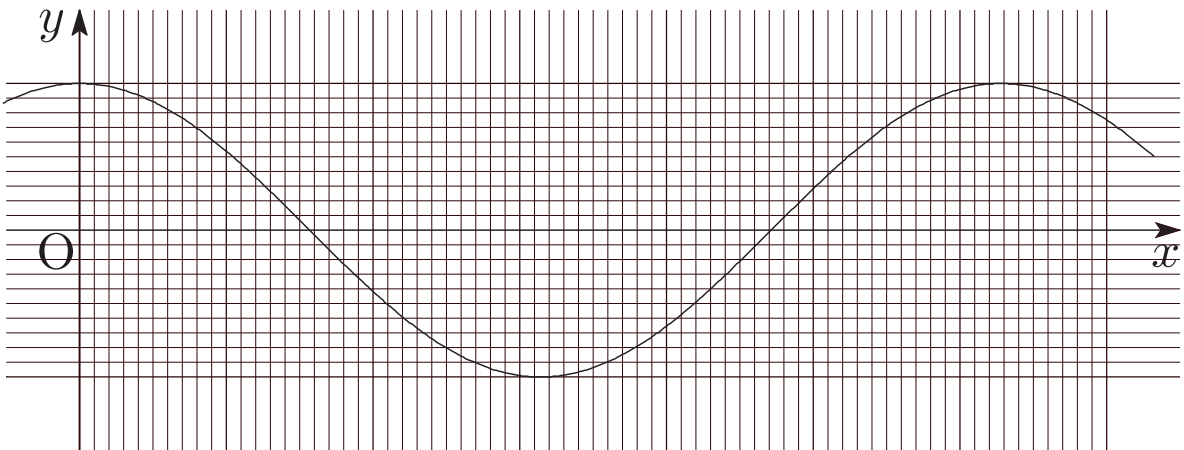
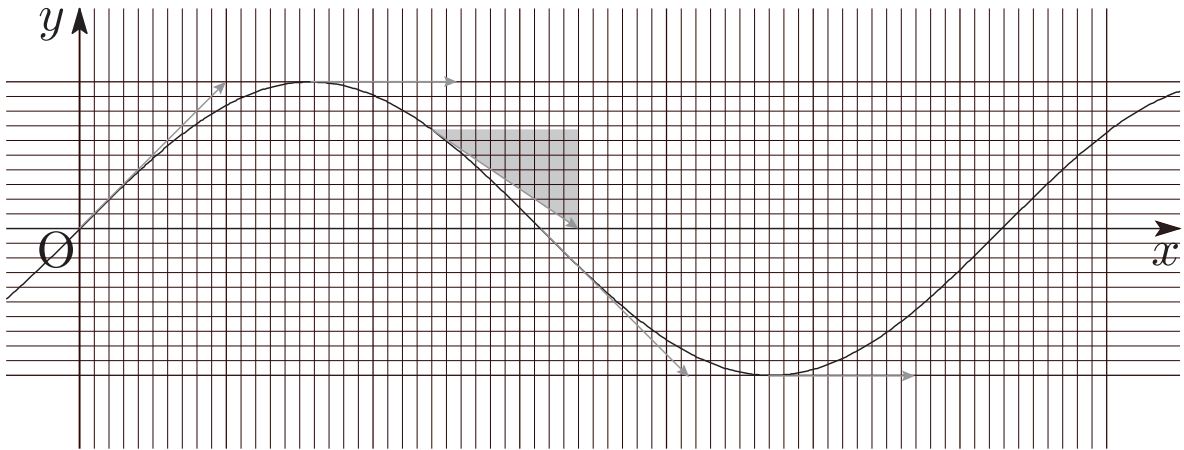
■  $\sin x$  の微分

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} \quad (x, f(x)) \text{ での接線の傾き}$$

$y = \sin x$  の各点で接線の傾きを調べよう.

$$(\sin x)' = \lim_{h \rightarrow 0} \frac{\sin(x+h) - \sin x}{h}$$

各点で接線を引き,  $x$  軸方向に 1 進んだ時の  $y$  の増分  $\Delta y$  を求めよ.



覚えているだろうか

$$a^{0.2}a^5 = \boxed{\phantom{a^{5.2}}}$$

$$(a^{0.2})^5 = \boxed{\phantom{a}}$$

$$y = \log_a x \iff \boxed{\phantom{a^x = y}}$$

$$y = \text{Sin}^{-1}x \iff \boxed{\phantom{\text{Sin } y = x}}$$

$$y = \text{Cos}^{-1}x \iff \boxed{\phantom{\text{Cos } y = x}}$$

$$y = \text{Tan}^{-1}x \iff \boxed{\phantom{\text{Tan } y = x}}$$