

7.  $f(x) = \arccos x$   $\left( \begin{matrix} x \\ y \end{matrix} \right) \left( 1, \frac{\pi}{4} \right)$

①  $f'(x) = \frac{-1}{1+x^2}$

②  $m = \frac{-1}{1+1^2}$

$m = \frac{-1}{2}$

③  $y = mx + b$

$\frac{\pi}{4} = -\frac{1}{2}(1) + b$

$\frac{\pi}{4} = -\frac{1}{2} + b$

$\frac{\pi}{4} + \frac{1}{2} = b$

$\frac{\pi}{4} + \frac{2}{4} = b$

$\frac{\pi+2}{4} = b$

④  $y = mx + b$

$y = -\frac{1}{2}x + \frac{\pi+2}{4}$