$y = \cos(x+y)$，求 y'

解：$y' = \frac{d}{dx}\cos(x+y)$

$\Rightarrow y' = -\sin(x+y)(x+y)'$

$\Rightarrow y' = -\sin(x+y)(1+y')$

$\Rightarrow y' = -\sin(x+y) - y'\sin(x+y)$

$\Rightarrow y' + y'\sin(x+y) = -\sin(x+y)$

$\Rightarrow y'(1+\sin(x+y)) = -\sin(x+y)$

$\Rightarrow y' = \frac{-\sin(x+y)}{1+\sin(x+y)}$