ឃ- ដេរីវេនៃ $y = cotan(x)$

$y = \cot anx$

$y = \frac{\cos x}{\sin x}$ => $y' = \frac{-sin^2x - cos^2 x}{sin^2x}$

$$y' = \frac{-1}{sin^2x} = - \frac{1}{sin^2x}$$

$$y' = - \frac{sin^2x + cos^2x}{sin^2x}$$

$$y' = -(1 + \frac{cos^2x}{sin^2x})$$

$$y' = -(1 + cotan^2x)$$

$\boldsymbol{y = cotanx}$ => $y' = -(1 + cotan^2x)$

(F-VII-05)