

YT4 (10) $y = \ln(x^2 + 2x - 4)$

$$y' = \frac{1}{x^2 + 2x - 4} \cdot (2x + 2)$$

$$y' = \frac{2x + 2}{x^2 + 2x - 4}$$

YT5 (11) $y = 4 \sin^2 x \rightarrow 4(\sin x)^2$

$$y' = 8 \sin x \cdot \cos x$$

$$y' = 8 \sin x \cos x$$

YT6 (12) $f(x) = \sqrt{x^2 + 1} \rightarrow (x^2 + 1)^{1/2}$

$$f'(x) = \frac{1}{2}(x^2 + 1)^{-1/2} \cdot 2x$$

$$f'(x) = \frac{x}{\sqrt{x^2 + 1}}$$

(6) (13) $y = \sec(3\theta)$

$$y' = \sec 3\theta \tan 3\theta \cdot 3$$

$$y' = 3 \sec 3\theta \tan 3\theta$$