

YT2 (6) $y = \sqrt{5-3x} \rightarrow (5-3x)^{1/2}$

$$y' = \frac{1}{2}(5-3x)^{-1/2} \cdot -3$$

$$y' = -\frac{3}{2}(5-3x)^{-1/2}$$

$$y' = \frac{-3}{2(5-3x)^{1/2}} = \frac{-3}{2\sqrt{5-3x}}$$

4 7) $y = \frac{1}{t^2+3t-1} \rightarrow (t^2+3t-1)^{-1}$

$$y' = -1(t^2+3t-1)^{-2} \cdot (2t+3)$$

$$= \frac{-(2t+3)}{(t^2+3t-1)^2}$$

YT3 (8) $y = 3\sqrt[4]{2-9x} \rightarrow 3(2-9x)^{1/4}$

$$y' = \frac{3}{4}(2-9x)^{-3/4} \cdot -9$$

$$y' = -\frac{27}{4}(2-9x)^{-3/4}$$

5 (9) $y = e^{2x}$

$$y' = e^{2x} \cdot 2$$

$$y' = 2e^{2x}$$