

(1) [3] Differentiate

$$g(t) = \frac{1}{(t^4 + 1)^3}$$

(2) [4] Differentiate

$$y = (2x - 5)^4(8x^2 - 5)^{-3}$$

(3) [4] Differentiate

$$y = \frac{r}{\sqrt{r^2 + 1}}$$

(4) [4] Differentiate

$$y = \sin(\tan(\sqrt{\sin x}))$$