Find the indicated derivatives. Clearly indicate your answers. You do not need to simplify your answers. (4 points each)

(a) $f(x) = \sec 4x$

$$f'(x) =$$

(b) $y = (t^3 - 3t + 1)^5 \cos 3t$

$$\frac{dy}{dt} =$$

(c) $f(x) = \left(\dfrac{1}{x^2 - 3x} \right)^{-2}$

$$\frac{d}{dx} f(x) =$$

(d) $y = \sin^3(6x)$

$$D_x y =$$

(e) $y = \dfrac{1}{\sqrt{1 - x}}$

$$\frac{d^2 y}{dx^2} =$$