P. 218 #10a) $y = x^4 - 8x^2 + 7$

$y' = 4x^3 - 16x$

$y'' = 12x^2 - 16$

10b) $y = \frac{3x-1}{x+1}$

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

10c) $y = \frac{x^2+1}{4x^2-9}$

$y' = \frac{-26x}{(2x-3)^2(2x+3)^2}$

$y'' = \frac{312x^2 + 234}{(2x-3)^3(2x+3)^3}$

10d) $y = x(x-4)^3$ $\quad y' = 4(x-4)^2(x-1)$ $\quad y'' = 12(x-4)(x-2)$

10e) $y = \frac{x}{x^2-4x+4}$ $\quad y' = \frac{-x-2}{(x-2)^3}$ $\quad y'' = \frac{2x+8}{(x-2)^4}$

10f) $f(t) = \frac{t^2-3t+2}{t-3}$

$f'(t) = \frac{t^2-6t+7}{(t-3)^2}$