12.8) Second order derivatives

Worked example	Your turn
If $y = 5x^3 - \dfrac{4}{x^3}$, find $\dfrac{d^2y}{dx^2}$	If $y = 3x^5 + \dfrac{4}{x^2}$, find $\dfrac{d^2y}{dx^2}$
	$$\dfrac{d^2y}{dx^2} = 60x^3 + \dfrac{24}{x^4}$$

Worked example	Your turn
If $f(x) = 3\sqrt{x} + \dfrac{1}{2\sqrt{x}}$, find $f''(x)$.	If $f(x) = 3\sqrt{x} + \dfrac{1}{2\sqrt{x}}$, find $f''(x)$.
	$f''(x) = -\dfrac{3}{4}x^{-\frac{3}{2}} + \dfrac{3}{8}x^{-\frac{5}{2}}$