Name:_____

Find $y'$:

a) $y = 2\arctan\sqrt{x}$

$$y' = 2\,\frac{1}{1+\sqrt{x}^2}\left(\frac{1}{2}x^{-1/2}\right)$$

$$= \frac{1}{\sqrt{x}\,(1+x)}$$

b) $y = 3\sin^{-1}(3x^2)$

$$y' = 3\cdot\frac{1}{\sqrt{1-(3x^2)^2}}\,(6x)$$

$$= \frac{18x}{\sqrt{1-9x^4}}$$