

Find the following derivatives.

Don't worry about algebraic simplifications.

1. $\frac{d}{dx}(\arcsin(x^2))$

2. $\frac{d}{dx}(\arcsin(2x))$

3. $\frac{d}{dx}(\arctan(4x))$

4. $\frac{d}{dx}(\arctan(\ln(x)))$

5. $\frac{d}{dx}(\arctan(\arcsin(x)))$