

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