

MATH 181 CALCULUS I WORKSHEET 6 ⁵/₈

Find $\frac{dy}{dx}$ (find the derivative with respect to x) of each of the following using *any technique* you wish to use (that is correct, one hopes)!

1. $y = 5 \cdot \arcsin(x)$

2. $y = \tan(x) \cdot \sinh(x)$

3. $y = \tanh(x) \cdot \cosh(x)$

4. $y = 7x \cdot \arctan(x)$

5. $y = 7^{\arctan(x)}$

6. $y = \ln(\arctan(x))$

7. $y = \arctan(\ln(x))$