

Name: _____

March 19, 2015

1. Find the derivatives of the following functions.

(a) $y = \sin^{-1}(x)$

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

(c) $f(x) = \ln\left(x^2 + \frac{1}{x}\right)$

(d) $z = \frac{\ln(w)}{w}$

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March 19, 2015

1. Find the derivatives of the following functions.

(a) $y = \tan^{-1}(x)$

(b) $y = \ln(\tan^{-1}(x))$

(c) $f(x) = \frac{1}{x^2 + \ln(x)}$

(d) $z = w \ln(w)$