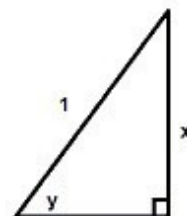


1. State

0. the reciprocal of $4/5$
- a. the symbol for the inverse of $f(x)$.
- b. the inverse of x squared
- c. the inverse of raising to a power
- d. the inverse of taking a log
- e. the meaning of square root of 25
- f. the meaning of $\log(100)$
- g. the symbol(s) for "the reciprocal of m "
- h. the symbol(s) for "the reciprocal of the derivative of $f(x)$ "
- i. The symbol for "the angle whose sine is x "
- j. If $f(x) = \sin(x)$, simplify $1/f'(x)$

2. Think: Oscar Had A Heap of Apples

- a. state the $\sin(x)$
- b. using the triangle given, what is $\sin(y)$?
- c. what is the length of the missing side?
- d. using the triangle given, what is $\cos(y)$?
- e. using the triangle given, what is $\tan(y)$?



3. State:

- a. $Dx(\sin(x))$
- b. $Dx(\cos(x))$
- c. $Dx(\tan(x))$
- d. $Dx(\csc(x))$
- e. $Dx(\sec(x))$
- f. $Dx(\cot(x))$

4. Write in symbols:

1. The derivative of an arc function $g(x)$ at (b, a) is the reciprocal of the derivative of the function $f(x)$ at (a, b) .
2. The derivative of a function $f(x)$ at (a, b) is the reciprocal of the derivative of the arc function $g(x)$ at (b, a) .

Find this page at:

<http://www.mathnstuff.com/math/calc/m131Dinverse.pdf>

The Sketchpad is at:

<http://www.mathnstuff.com/math/gsp/sumr19/su19newgsp/inverse.gsp>