

## MATH111-002 200630 Quiz 2

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Thursday, September 28, 2006

You have 20 minutes to do both of the following problems. Each is worth 10 marks for a total of 20 marks for the quiz.

1. Differentiate the function  $f(x) = \sqrt{x^x}$ .

2. Find an equation of the tangent to the curve  $y = \ln x$  that is perpendicular to the line  $y + 2x = 7$ .