

QUIZ 8 – Math 105 – Fall 2007
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1. Express 135° in radians

2. An arc of length 4 m on a circle of radius 16 m subtends an angle $\theta =$

3. Write the formula linking r, s, θ :

4. Car wheel 1 m in diameter travels 10 km, number of revolutions =

5. Graph $y = \ln(x + 1)$ (on back)

6. If $\ln(x^2 + x) - \ln x - \ln 50 = 0$, then $x =$

7. If $3000e^{0.05r} = 4000$, then $r =$

8. Compute $\lim_{n \rightarrow \infty} \left(1 + \frac{0.1}{n}\right)^{3n} =$

9. If $e^{2x} - e^x = 0$, then $x =$

10. Write 10^x as an exponential with base e