

1. Find the exact solutions to the equations

(a) $\ln x + \ln 3 = \ln 6$,

(2)

(b) $e^x + 3e^{-x} = 4$.

(4)

June 2007

2. A curve C has equation

$$y = e^{2x} \tan x, \quad x \neq (2n+1) \frac{\pi}{2}.$$

(a) Show that the turning points on C occur where $\tan x = -1$.

(6)

(b) Find an equation of the tangent to C at the point where $x = 0$.

(2)

January 2008

3. Given that

$$2 \cos (x + 50)^\circ = \sin (x + 40)^\circ.$$

(a) Show, without using a calculator, that

$$\tan x^\circ = \frac{1}{3} \tan 40^\circ.$$

(4)

(b) Hence solve, for $0 \leq \theta < 360$,

$$2 \cos (2\theta + 50)^\circ = \sin (2\theta + 40)^\circ,$$

giving your answers to 1 decimal place.

(4)

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