

8 It is given that

$$\ln x - \ln y = 3$$

8 (a) Express  $x$  in terms of  $y$  in a form not involving logarithms.

**[3 marks]**

8 (b) Given also that

$$x + y = 10$$

find the exact value of  $y$  and the exact value of  $x$

**[3 marks]**