

## Summary of a few key points

Know and know how to use the chain rule relating logarithmic functions for different bases.

Know and know how to use the formula for differentiating the natural logarithmic function (to the base  $e$ ).

Know and know how to use the formula for differentiating the exponential function and related functions.

Know and know how to use the logarithmic differentiation formula:

$$Df = f \cdot D(\log f)$$