## Dr Oliver Mathematics Differentiation: Part 2

1. Find

$$\frac{\mathrm{d}}{\mathrm{d}x} \left( \ln \mathrm{e}^{2x} \right).$$

Solution

$$\frac{d}{dx} \left( \ln e^{2x} \right) = \frac{d}{dx} \left( 2x \ln e \right)$$

$$= \frac{d}{dx} \left( 2x \cdot 1 \right)$$

$$= \frac{d}{dx} \left( 2x \right)$$

$$= \frac{2}{2}.$$

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