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**2015 11** Differentiate  $(e^x + x)^5$ .  
**e**

**2**

Using the function of a function rule:

$$\frac{d}{dx} [(e^x + x)^5] = 5(e^x + x)^4 \cdot (e^x + 1)$$

State Mean:  
**1.52**

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.

### Board of Studies: Notes from the Marking Centre

(e) This part was challenging.

Common problems were:

- the incorrect use or omission of brackets
- incorrectly differentiating  $e^x + x$ .