

## 3.2

①  $f(x) = 2e^x + x^2$   
 $f'(x) = 2e^x + 2x$

### Mistakes

- derivative of  $e^x = e^x = \ln(e) \cdot e^x$   
 $\downarrow$   
 $= 1$
- $\frac{d}{dx}(2e^x) = 2 \frac{d}{dx}(e^x) = 2e^x$