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$$f(x) = \sin e^{3x}$$

$$f'(x) = (e^{3x})' \cos e^{3x}$$

$$= (3x)' e^{3x} \cdot \cos e^{3x}$$

$$= 3 e^{3x} \cos e^{3x}$$

$$(g \circ f)'(x) = f'(x) \cdot g'(f(x))$$