Calculus ex04 Apr. 24 2019

| $\bigcirc 0$ |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $\bigcirc 1$ |
| $\bigcirc 2$ |
| $\bigcirc 3$ | \bigcirc 3 |
| $\bigcirc 4$ |
| $\bigcirc 5$ |
| $\bigcirc 6$ |
| $\bigcirc 7$ |
| $\bigcirc 8$ |
| $\bigcirc 9$ |

 \leftarrow Please encode your student number, and write your first and last names below.

First name and last name

Question [diff09] Find the derivative f'(x) of $f(x) = (-3x^2 - 5)^8$.

Question [diff10] Find the derivative f'(x) of $f(x) = \sqrt{x^2 - 1}$.

Question [diff11] Find the derivative f'(x) of $f(x) = \sin(9x - 6)$.

Question [diff12] Find the derivative f'(x) of $f(x) = \tan(5x + 4)$.

Question [diff13] Find the derivative f'(x) of $f(x) = \cos(8x)\sin(2x)$.

- $2 \cos(8x) \cos(2x) 8 \sin(8x) \sin(2x)$
- \bigcirc -16 cos (2x) sin (8x)
- $\bigcirc 2 \cos(8x) \cos(2x) + 8 \sin(8x) \sin(2x)$
- $\bigcirc -2 \cos(8x) \cos(2x) 8 \sin(8x) \sin(2x)$
- $\bigcap 16 \cos(2x) \sin(8x)$

Question [diff14] Find the derivative f'(x) of $f(x) = e^{(2x+9)}$.

Question [diff15] Find the derivative f'(x) of $f(x) = \log(4x + 7)$.