Quiz 8.5 – The Fundamental Theorem of Calculus (Part 2)

1. (1 pt) alfredLibrary/AUCI/chapter8/lesson5/quiz/FTC1pet.pg

If $f(x) = \int_0^x (t^3 + 3t^2 + 5)\,dt$,

then $f'(x) =$ _____,

and $f''(x) =$ _____.

2. (1 pt) alfredLibrary/AUCI/chapter8/lesson5/quiz/FTC2pet.pg

If $f(x) = \int_x^5 t^3 \cos(t)\,dt$,

then $f'(x) =$ _____.

3. (1 pt) alfredLibrary/AUCI/chapter8/lesson5/quiz/FTC3pet.pg

If $f(x) = \int_0^{x^2} \frac{t^2 - 4}{\sin t}\,dt$,

then $f'(x) =$ _____.