

Final Exam

Student ID \_\_\_\_\_

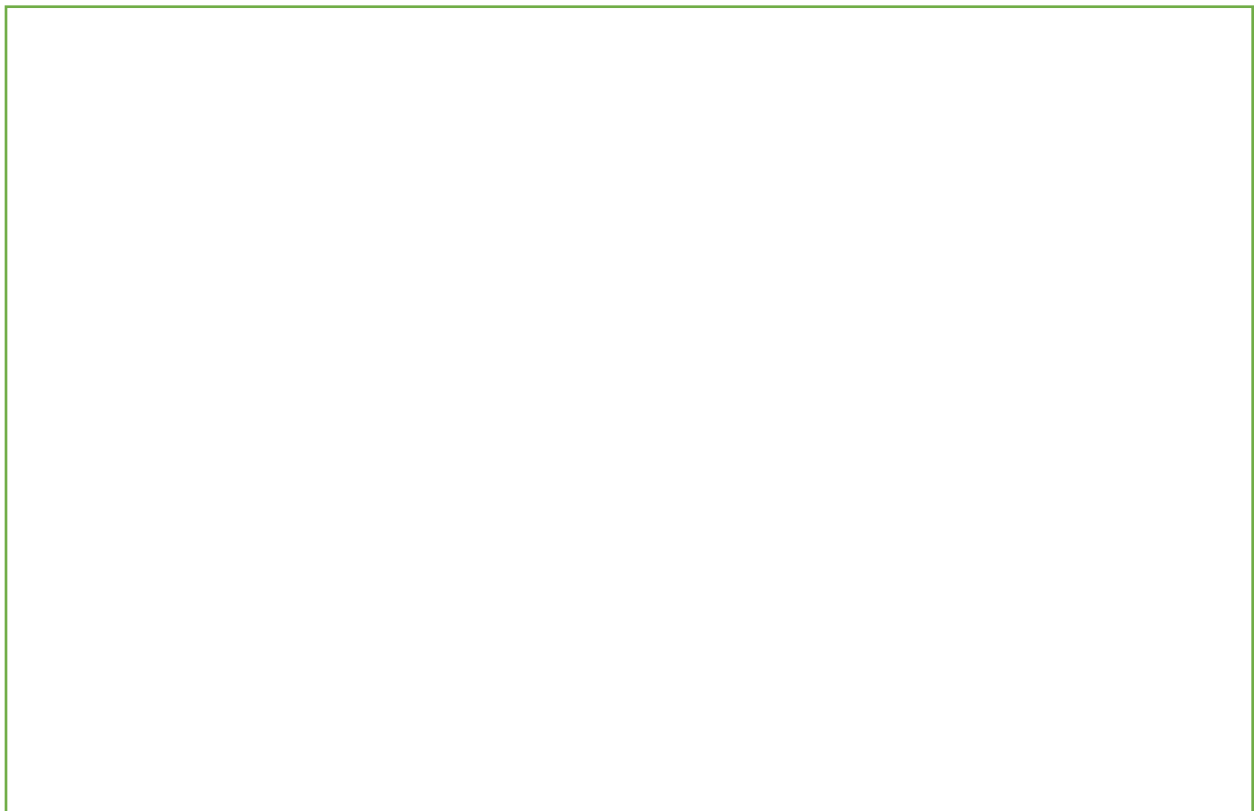
$$f(x) = x^2 + 2x + 1$$

Determine  $f'(x)$



$$f(x) = \cos(x) + 2x \sin(x)$$

Determine  $f'(x)$



Explain the quotient rule, including an example