

Name: \_\_\_\_\_

Student Number: \_\_\_\_\_

1. Find the most general antiderivative of the following function.

a)  $f(x) = 3\sqrt{x} + 2x$

b)  $f(x) = \frac{4x^3 + 2x}{x^2}$

c)  $f(x) = e^x + \frac{1}{x}$

d)  $f(x) = \frac{2 + x^2}{1 + x^2}$