Quiz 1.4 – Integrals of Constant Functions

1. **(1 pt) alfredLibrary/AUCI/chapter1/lesson4/quiz/question1.pg**
In each part, choose the letter from the dropdown menu that corresponds to the most accurate description of the given statement.

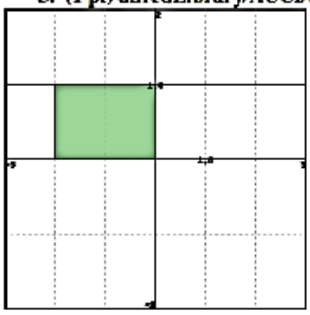
? 1. $\int 6\,dx$
? 2. $(6x-2)'$
? 3. $6x-2$
? 4. $\int_{-6}^{9} 6\,dx$

A. A family of functions whose derivatives are $y=6$
B. The derivative of the function $y=6x-2$
C. The net area bounded by $y=6$ on the interval $[-6,9]$
D. An antiderivative of $y=6$
E. None of the above

2. **(1 pt) alfredLibrary/AUCI/chapter1/lesson4/quiz/question4p.pg**
Use the Fundamental Theorem of Calculus to evaluate the definite integral.

$$\int_{9}^{64} 31\,dx = \_\_\_\_\_\Big|_{\_\_}^{\_\_} = \_\_$$

3. **(1 pt) alfredLibrary/AUCI/chapter1/lesson4/quiz/question5p.pg**



The net area of the shaded region is given by

$$\int_{\_\_}^{\_\_} \_\_\,dx = \_\_\Big|_{\_\_}^{\_\_} = \_\_$$