

2. (5 points) Suppose $\int_4^9 (4f(x) + 7)dx = 315$. Find $\int_4^9 f(x)dx$.

3. (5 points) Use the Fundamental Theorem to determine the positive value of b if the area under the graph of $f(x) = 4x + 1$ between $x = 2$ and $x = b$ is equal to 11.