5.1 (part 2): Limit of a Riemann Sum

1.] Express the right Riemann Sum of $f(x) = x^2$ on [0,9] using n rectangles in summation notation. The answer to this question is an expression involving n only.

2.] Using your expression from part 1, find the right-hand Riemann Sum with n = 9 rectangles.

3.] Using your expression from part 1, find the right-hand Riemann Sum with n = 18 rectangles.

4.] Using your expression from part 1, find the right-hand Riemann Sum with n = 180 rectangles.

5.] Find the exact value of the area under the curve $f(x) = x^2$ on [0,9] by taking $n \to \infty$.