Integrate with respect to x:

$$\int 20x^2 + 1\, dx$$

Solution

$$\int 20x^2 + 1\, dx = 20\int x^2 + 1\, dx = 20\int x^2 dx + \int dx = \frac{20}{3} x^3 + x + C\,,$$

where C is an arbitrary real constant.