

Task. Antidervative of $\frac{3}{2x} + 1$

Solution. Antidervative of $\frac{3}{2x} + 1$ is

$$\int \left(\frac{3}{2x} + 1 \right) dx = \frac{3}{2} \int \frac{dx}{x} + \int dx = \frac{3}{2} \ln|x| + x + C.$$