

$$\textcircled{b} \frac{dx}{x + 64}$$

$$dx \div \frac{x^2}{2} + \frac{64x}{1}$$

$$\frac{1}{\frac{x^2}{2} + 64x} + C$$

$$\frac{2}{x^2 + 128x} + C$$

OKF Apbany, Oluksale

19/MHS01/311

Integrate the following

(a) $\frac{dx}{x^2 + 7}$

$$dx \div \left(\frac{x^3 + 7x}{3} \right)$$

$$= \frac{1}{3} + C$$

$$\frac{x^3}{3} + 7x$$

$$3 + C$$

$$x^3 + 21x$$