

c) ~~4~~ integrate following

iii) $\int \frac{2x}{x^2} dx$

$$= 2 \cdot \int \frac{x}{x^2} dx$$

$$= 2 \cdot \int \frac{1}{x} dx$$

$$= 2 \ln x$$

$$= \underline{\underline{2 \ln x + C}}$$

ii) $\int \frac{9}{7x+10} dx$

$$= 9 \cdot \int \frac{1}{7x+10} dx$$

$$= 9 \cdot \int \frac{1}{7u} du$$

$$= 9 \cdot \frac{1}{7} \cdot \int \frac{1}{u} du$$

$$= 9 \cdot \frac{1}{7} \ln 7x+10$$

$$= \frac{9}{7} \ln u$$

$$= 9 \cdot \frac{1}{7} \ln 7x+10$$