16. $\int \ln_e(e^{3x+4})\,dx$

$= \int (3x+4)\,dx$

$= \frac{3}{2}x^2 + 4x + C$

17. $f'(x) = 0.2^{\frac{x}{3}}$ $\quad (0, \frac{1}{3})$

$f(x) = \int f'(x)$

$= \int 0.2^{\frac{x}{3}}\,dx$ ← u

↑ a

$u = \frac{1}{3}x \quad du = \frac{1}{3}\,dx$

$= 3\int \frac{1}{3}\,(0.2)^{\frac{x}{3}}\,dx$

$= 3\int a^u\,du$

$= 3 \cdot \frac{1}{\ln a} \cdot a^u + C$

$= \frac{3}{\ln 0.2} \cdot 0.2^{\frac{x}{3}} + C$