SOME INTEGRALS TO RECALL
Before section 3.2 and Chapter 4, it is timely to review some antiderivatives.

1. $\int \frac{d y}{a y+b}=$

$$
\frac{1}{a} \ln |a y+b|+c
$$

$$
\begin{aligned}
& \int^{s^{2}}=\int_{\frac{d+}{x^{2}+a^{2}}=}^{\frac{1}{a}} \arctan \left(\frac{x}{a}\right)+c
\end{aligned}
$$ $\Sigma^{8 P} y^{4} \cdot \int x^{n e m}=\frac{1}{a} x^{n} e^{a x}-\frac{n}{a} \int x^{n-1} e^{a x} d x$

Res. $\int \operatorname{cosestat}-\frac{e^{a t}(a \cos (b t)+b \sin (b t))}{a+b^{2}}$
$5 . \iint$ ecosestd $=\frac{e^{a t}(a \cos (b t)+b}{a^{2}+b^{2}}$

