求下列不定积分:

(1) $\int \ln x dx$

(2) $\int \arctan x dx$ (3) $\int \arcsin x dx$



求下列不定积分:

(1) [2019]
$$\int xe^{-x}dx$$

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 (2) [2017] $\int \frac{\ln(1+x)}{(1+x)^2}dx$ (3) [2014] $\int (2-x)\ln xdx$

(3) [2014]
$$\int (2-x) \ln x dx$$



求下列不定积分:

 $(1) \int e^x \cos x dx$

(2) [2019] $\int e^{-x} \sin x dx$

