Integrate:

1.
$$\int xe^x, dx$$

1.
$$\int xe^{x}, dx$$
2.
$$\int x\sin(x), dx$$
3.
$$\int \ln(x), dx$$
4.
$$\int e^{x}\cos(2x), dx$$
5.
$$\int x^{3}e^{x}, dx$$

$$\int \ln(x), dx$$

$$\int e^x \cos(2x), dx$$

$$\int x^3 e^x, dx$$