## Integrate:

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

1. 
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$$\int x\sin(x), dx$$

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

4. 
$$\int e^x \cos(2x), dx$$
5. 
$$\int x^3 e^x, dx$$
6. 
$$\int \tan(x), dx$$

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

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