Integration by Parts
$$\int u dv = uv - \int v du \qquad \int_a^b u dv = uv \Big|_a^b - \int_a^b v du$$

$$| \int x e^x dx \qquad 2 \int x \cos(\omega) dx \qquad 3 \int |u(x)| dx$$

$$| \int x^2 e^x dx \qquad 5 \int x e^{-x} dx \qquad 6 \int \int \int \int u dx dx$$

$$| \int x^3 e^{-x} dx \qquad 8 \int x^4 |u(x)| dx \qquad 9 \int \int \int \int \int u dx dx$$

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$$| \int x^3 e^{-x} dx \qquad 1 \int \partial x dx dx$$

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22) 
$$\int \frac{\sqrt{1-x^2}}{x^2} dx$$
 23)  $\int \sqrt{1+x^2} dx$  24)  $\int \frac{\sqrt{x^2-1}}{x^4} dx$ 

25) 
$$\int \sqrt{1-x^2} dx$$
 26)  $\int +an^3(x) dx$  27)  $\int (x+3)\sqrt{x-1} dx$