

# Home Work 8

① Calculate

$$\int_{-1}^1 \sqrt{\frac{1+x}{1-x}} dx.$$

②  $\int_0^3 \frac{dx}{(x-1)^{2/3}}$

⑤  $\int_0^{\infty} \cos x dx.$

③  $\int_1^{\infty} \frac{dx}{x^2}$

④  $\int_1^{\infty} e^{-x^2} dx.$