

## INTEGRALS

EVALUATE THE FOLLOWING:

Q1.  $\int_{-\pi}^{\pi} |\sin x| dx$

Q2.  $\int_{-\pi}^{\pi} \sin |x| dx$

Q3.  $\int_{-\pi}^{\pi} x \sin x dx$

Q4.  $\int_{-\pi}^{\pi} x^{10} \sin x dx$

WHAT CAN YOU SAY ABOUT  $\int_{-\pi}^{\pi} x^N \sin x dx$   
FOR DIFFERENT INTEGER VALUES OF  $N$ ?

COMPUTE  $\int_{-\frac{1}{2}}^{\frac{1}{2}} \cos x \ln\left(\frac{1+x}{1-x}\right) dx$