

Name:-

ID:-

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1. If  $y = \frac{\ln x}{\sin(\pi x)e^x}$ , then  $\left. \frac{dy}{dx} \right|_{x=1/2} =$

2. Let  $f(x) = 1 + 2x - x^2$ ,  $x \leq 1$ , Then find  $\left. \frac{df^{-1}}{dx} \right|_{x=-2} =$