

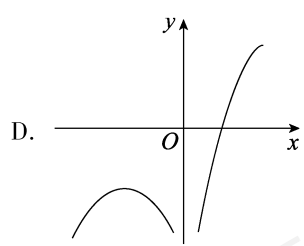
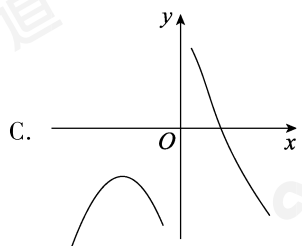
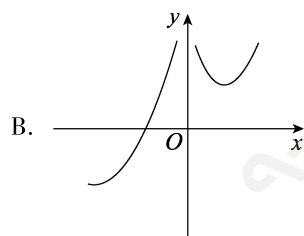
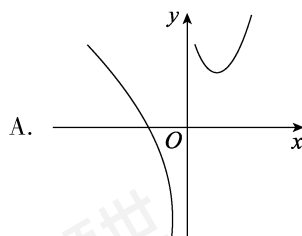


1.4.3.2 题型2: 复杂函数图象

【例1】 难度 ★★★

函数 $f(x) = e^{\ln|x|} + \frac{1}{x}$ 的图象大致为

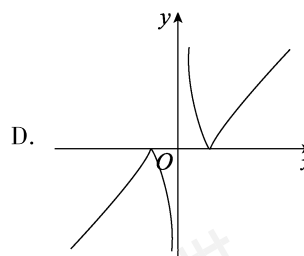
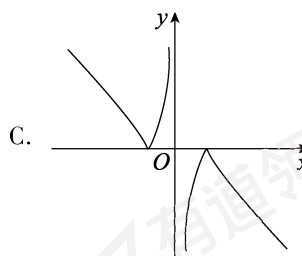
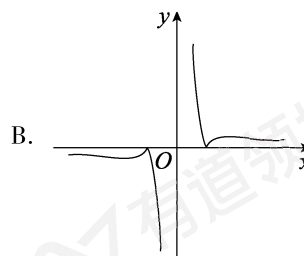
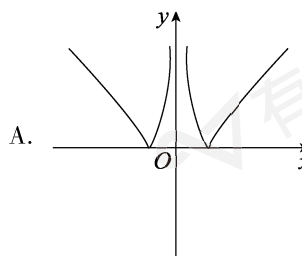
()



【例2】 难度 ★★★

(2022 年天津卷高考真题 3) 函数 $f(x) = \frac{|x^2 - 1|}{x}$ 的图象为

()

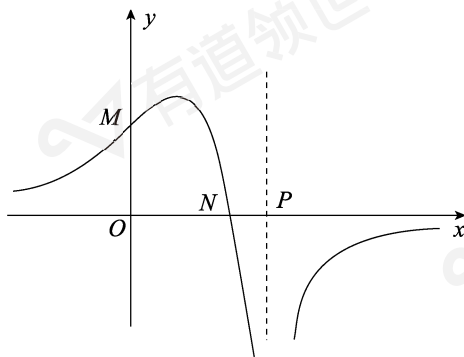


3

☆☆☆

(2022 年安徽卷高考真题 9) 函数 $f(x) = \frac{ax+b}{(x+c)^2}$ 的图象如图所示, 则下列结论成立的是

()

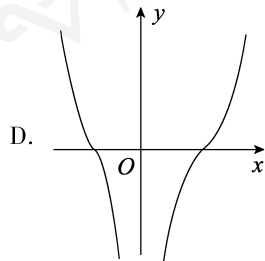
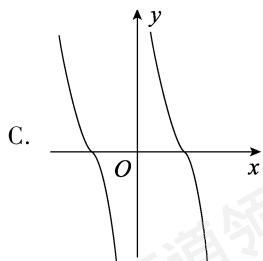
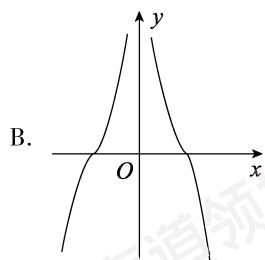
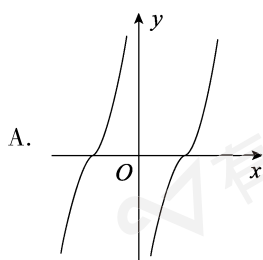
A. $a > 0, b > 0, c < 0$ B. $a < 0, b > 0, c > 0$ C. $a < 0, b > 0, c < 0$ D. $a < 0, b < 0, c < 0$

【例 4】

难度 ☆☆☆

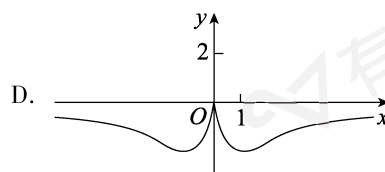
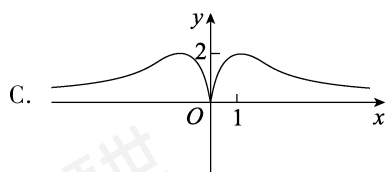
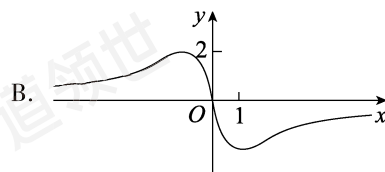
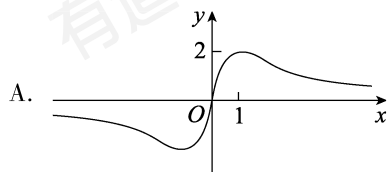
函数 $f(x) = x^3 - \frac{1}{x}$ 的图象大致为

()



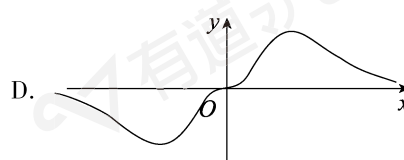
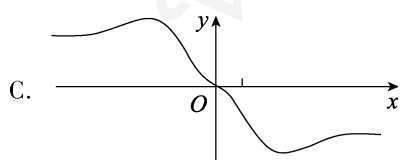
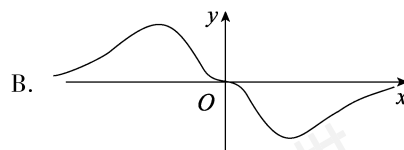
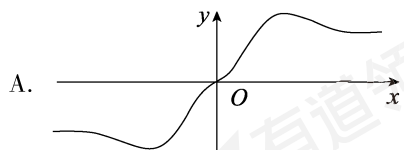
5 ☆☆☆

(2020 天津卷高考真题第 3 题) 函数 $y = \frac{4x}{x^2 + 1}$ 的图象大致为 ()



【例 6】 难度 ☆☆☆

函数 $f(x) = \frac{x^3}{2^x + 2^{-x}}$ 的部分图象大致为 ()



7 ☆☆☆

函数 $f(x) = x \ln\left(\frac{2}{1-x} - 1\right)$ 的图象大致为

()

