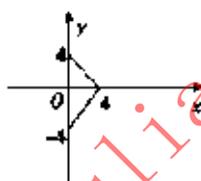
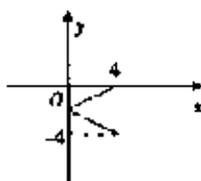
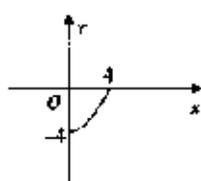
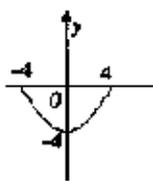


江西省2022届高三数学上学期阶段性检测考试试题（二）理

1. \_\_\_\_\_

设  $M = \{x | 0 \leq x \leq 4\}$ ,  $N = \{y | -4 \leq y \leq 0\}$ , 函数  $f(x)$  的定义域为  $M$ , 值域为  $N$ , 则  $f(x)$  的图象可以是 ( )



A.

B.

C.

D.

2. \_\_\_\_\_

已知  $\sin(\alpha + \frac{2017\pi}{2}) = \frac{1}{6}$ , 则  $\cos \alpha =$  ( )

A.  $\frac{\sqrt{35}}{6}$

B.  $\pm \frac{\sqrt{35}}{6}$

C.  $-\frac{1}{6}$

D.  $\frac{1}{6}$

3. \_\_\_\_\_

曲线  $f(x) = e^{3x} - x^3$  在点  $(0, f(0))$  处的切线方程是 ( )

A.  $3x + y - 1 = 0$

B.  $3x - y - 1 = 0$

C.  $3x + y + 1 = 0$

D.  $3x - y + 1 = 0$

4. \_\_\_\_\_

已知  $P(-\sqrt{3}, \frac{a}{a+1})$  为角  $\beta$  的终边上的一点, 且  $\sin \beta = \frac{\sqrt{13}}{13}$ , 则  $a$  的值为 ( )

A. 1

B. 3

C.  $\frac{1}{3}$

D.  $\frac{1}{2}$

5. \_\_\_\_\_

已知函数  $f(x) = \ln(ax - 1)$  的导函数是  $f'(x)$ , 且  $f'(2) = 2$ , 则实数  $a$  的值为 ( )

A.  $\frac{1}{2}$

B.  $\frac{2}{3}$

C.  $\frac{3}{4}$

D. 1

6. \_\_\_\_\_

已知  $a = \sin 2015^\circ$ ,  $b = \sin 2016^\circ$ ,  $c = \sin 2017^\circ$ , 则 ( )

A.  $b > c > a$

B.  $c > b > a$

C.  $a > b > c$

D.  $a > c > b$