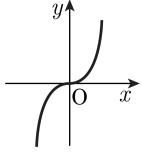
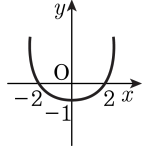


1. 다음 함수의 그래프 중 일대일 대응이 아닌 것은?

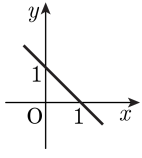
①



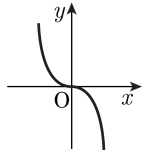
②



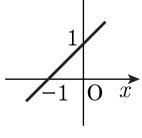
③



④

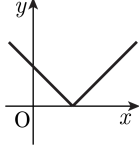


⑤

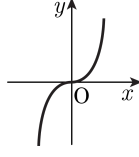


2. 다음 함수 $y = f(x)$ 의 그래프 중 역함수가 존재하는 것은?

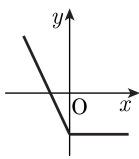
①



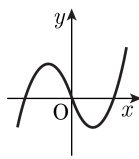
②



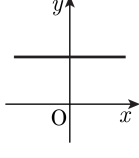
③



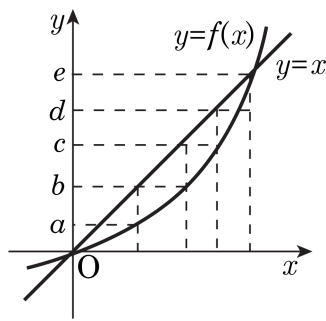
④



⑤



3. 다음 그림은 두 함수 $y = f(x)$ 와 $y = x$ 의 그래프이다. $(f \circ f)^{-1}(b)$ 의 값은?



- ① a ② b ③ c ④ d ⑤ e

4. 분수식 $\frac{1}{x-1} + \frac{1}{x-2} - \frac{1}{x-3} - \frac{1}{x-4}$ 을 간단히 하면 $\frac{ax^2+bx+c}{(x-1)(x-2)(x-3)(x-4)}$ 일 때, 상수 a, b, c 에 대하여 $a+b+c$ 의 값은?

① -6 ② -3 ③ 0 ④ 3 ⑤ 6

5. 함수 $y = -\frac{2}{x} - 3$ 의 점근선의 방정식은?

① $x = 0, y = 3$ ② $x = 0, y = -3$ ③ $x = 1, y = 3$

④ $x = -1, y = 3$ ⑤ $x = 1, y = -3$

6. 다음 무리식의 값이 실수가 되는 x 의 범위를 구하면?

$$\sqrt{x-1} + \sqrt{3-x}$$

- ① $1 < x < 3$ ② $1 \leq x \leq 3$
③ $x > 3$ ④ $x < 1$
⑤ $x \leq 1$ 또는 $x \geq 3$

7. 다음 중 $\sqrt{8} + \sqrt{18}$ 을 바르게 계산한 것은?

① $\sqrt{26}$

② $2(\sqrt{2} + \sqrt{3})$

③ 7

④ $5\sqrt{2}$

⑤ $2\sqrt{13}$