

## 01 원의 방정식

pp. 007~014

### 개념확인코너

- 1 (1) (1, 2), 3 (2) (3, -1), 5 (3) (0, 0), 2 (4) (-2, 0),  $\sqrt{3}$   
 2 (1)  $(x-2)^2 + (y-3)^2 = 1$  (2)  $(x-1)^2 + (y+2)^2 = 9$  (3)  $x^2 + y^2 = 25$   
 3 (1)  $(x-2)^2 + (y+1)^2 = 1$  (2)  $(x+4)^2 + (y-1)^2 = 16$   
 (3)  $(x-3)^2 + y^2 = 9$  4 (1) (1, -3), 2 (2) (0, -2), 3  
 5 (1) 2 (2) 1 (3) 0  
 6 (1)  $y = 2x \pm 2\sqrt{5}$  (2)  $y = -x \pm \sqrt{2}$  (3)  $y = -3x + 10$  (4)  $y = \frac{1}{2}x - \frac{5}{2}$

### 교과서 예제 & 유제

- 01 (1)  $(x-3)^2 + (y+2)^2 = 16$  (2)  $x^2 + y^2 = 25$   
 01-1 (1)  $(x-5)^2 + y^2 = 9$  (2)  $x^2 + y^2 = 5$  01-2  $(x-2)^2 + (y-5)^2 = 25$   
 02 (1) (-1, 3) (2)  $\sqrt{5}$  (3)  $(x+1)^2 + (y-3)^2 = 5$   
 02-1  $(x-2)^2 + (y-1)^2 = 10$  03 (1) (3, -1), 2 (2) (0, 2), 1  
 03-1  $(x+4)^2 + (y-1)^2 = 25$  03-2  $(x+1)^2 + (y-1)^2 = 10$   
 04 (1) 0 (2) 1 04-1 (1) 2 (2) 1 05 (1)  $-2 < k < 2$   
 (2)  $k = -2$  또는  $k = 2$  (3)  $k < -2$  또는  $k > 2$  05-1  $-\sqrt{5} < k < \sqrt{5}$   
 05-2  $k = -4\sqrt{2}$  또는  $k = 4\sqrt{2}$  06  $y = 2x \pm 3\sqrt{5}$   
 06-1 (1)  $y = 2x \pm 5$  (2)  $y = -2x \pm 2\sqrt{5}$   
 06-2  $y = \pm \frac{\sqrt{5}}{2}x + 6$  07  $y = \frac{1}{3}x - \frac{10}{3}$   
 07-1  $y = 2x + 5$  07-2  $y = -\frac{3}{2}x + \frac{13}{2}$

### 연습문제 Step A & B

- 01 ④ 02  $(x-1)^2 + (y-3)^2 = 10$  03 -1 04 ②  
 05  $(x+2)^2 + (y-1)^2 = 4$  06 2 07  $y = 5x \pm 4\sqrt{26}$   
 08 ⑤  
 09 ④ 10 -13 11  $4\sqrt{2}$  12 ② 13 42  
 14  $26\pi$  15  $\frac{169}{6}$  16  $10 + 2\sqrt{5}$

## 02 도형의 이동

pp. 017~024

### 개념확인코너

- 1 (1) (3, 7) (2) (5, 1) 2 (1)  $a = 4, b = -4$  (2)  $a = 3, b = -6$   
 3 (1)  $3x + 2y - 7 = 0$  (2)  $3x + 2y - 8 = 0$   
 4 (1)  $x^2 + (y+2)^2 = 1$  (2)  $(x-1)^2 + (y-5)^2 = 1$   
 5 (1) (2, -3) (2) (-2, 3) (3) (-2, -3) (4) (3, 2)  
 6 (1)  $3x - 2y - 1 = 0$  (2)  $3x - 2y + 1 = 0$   
 (3)  $3x + 2y + 1 = 0$  (4)  $2x + 3y - 1 = 0$

### 교과서 예제 & 유제

- 01 (1) (-1, 6) (2) (-5, 5) (3) (-3, 1) 01-1  $a = 2, b = 4$   
 01-2  $a = -2, b = 5$   
 02 (1)  $2x + y - 5 = 0$  (2)  $(x-3)^2 + (y+2)^2 = 4$   
 02-1 (1)  $2x - 3y + 11 = 0$  (2)  $(x+1)^2 + (y-3)^2 = 5$  03 -6  
 03-1 12 03-2 2  
 04 (1) (-3, -5) (2) (3, 5) (3) (3, -5) (4) (5, -3)  
 04-1 8 04-2 3  
 05 (1)  $(x-2)^2 + (y+1)^2 = 1$  (2)  $(x+2)^2 + (y-1)^2 = 1$   
 (3)  $(x+2)^2 + (y+1)^2 = 1$  (4)  $(x-1)^2 + (y-2)^2 = 1$   
 05-1  $3x + 4y + 2 = 0$  05-2  $x^2 + (y-3)^2 = 1$   
 06 (0, -8) 06-1  $(x-2)^2 + (y-3)^2 = 4$

### 연습문제 Step A & B

- 01 (1) (7, 1) (2)  $y = 2x - 7$  (3)  $(x-2)^2 + (y-3)^2 = 10$   
 02  $a = -5, b = 11$  03 -11 04 ⑤ 05 ③  
 06 3 07 ⑤ 08 9  
 09 7 10 ④ 11 -2 12 P(-2, 4) 13 ③  
 14 -4 15  $85\pi$  16  $\sqrt{61}$

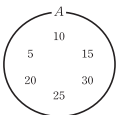
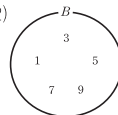
## 03 집합

pp. 027~036

### 개념확인코너

- 1 (1) 집합이다. (2) 집합이 아니다. (3) 집합이다.  
 2 (1) 3, 6, 9 (2) 2, 4, 6, 8 3 (1)  $\in$  (2)  $\notin$  (3)  $\in$   
 4 (1) 3 (2) 5 (3) 4  
 5 (1)  $\subset$  (2)  $\subset$  (3)  $\not\subset$  (4)  $\subset$  6 (1)  $=$  (2)  $=$  (3)  $\neq$  (4)  $=$   
 7 (1)  $A \cap B = \{2, 3\}$ ,  $A \cup B = \{1, 2, 3, 5, 6, 7\}$   
 (2)  $A \cap B = \{5\}$ ,  $A \cup B = \{1, 2, 3, 5, 7, 8, 9\}$   
 (3)  $A \cap B = \{x | 1 < x \leq 4\}$ ,  $A \cup B = \{x | -3 \leq x < 6\}$   
 8 (1) 7 (2) 3 9 (1)  $\{2, 4, 6\}$  (2)  $\{1, 5\}$  (3)  $\{2, 4\}$   
 10 (1) A (2) B (3)  $\emptyset$

### 교과서 예제 & 유제

- 01 (1) 집합이다, 원소: 1, 2, 3, 4 (2) 집합이 아니다.  
 (3) 집합이다, 원소: 1, 3, 9 (4) 집합이 아니다.  
 01-1 (1) 집합이다, 원소: 5, 10, 15, ... (2) 집합이 아니다.  
 (3) 집합이다, 원소: -2, 2 (4) 집합이 아니다.  
 02 (1)  $A = \{5, 10, 15, 20, 25, 30\}$  (1)  (2)  $B = \{x | x \text{는 } 10 \text{보다 작은 홀수}\}$  (2)   
 02-1 (1)  $A = \{2, 3, 5, 7\}$  (2)  $B = \{12, 14, 16, 18\}$   
 02-2 (1)  $A = \{x | x \text{는 } 16 \text{의 약수}\}$  (2)  $B = \{x | x \text{는 } 18 \text{ 이하의 } 3 \text{의 배수}\}$   
 03 (1)  $n(A) = 5$  (2)  $n(B) = 4$  (3)  $n(C) = 3$   
 03-1 (1)  $n(A) = 10$  (2)  $n(B) = 2$  (3)  $n(C) = 0$   
 04 (1)  $\emptyset$ ,  $\{a\}$ ,  $\{b\}$ ,  $\{a, b\}$  (2)  $\emptyset$ ,  $\{1\}$ ,  $\{3\}$ ,  $\{9\}$ ,  $\{1, 3\}$ ,  $\{3, 9\}$ ,  $\{1, 9\}$ ,  $\{1, 3, 9\}$   
 04-1 (1)  $\emptyset$ ,  $\{1\}$ ,  $\{2\}$ ,  $\{4\}$ ,  $\{1, 2\}$ ,  $\{2, 4\}$ ,  $\{1, 4\}$ ,  $\{1, 2, 4\}$   
 (2)  $\emptyset$ ,  $\{1\}$ ,  $\{2\}$ ,  $\{4\}$ ,  $\{1, 2\}$ ,  $\{2, 4\}$ ,  $\{1, 4\}$   
 05 (1)  $a = 6$ ,  $b = 10$  (2)  $a = 1$ ,  $b = 5$   
 05-1 (1)  $a = -2$ ,  $b = 3$  (2)  $a = 3$ ,  $b = 1$   
 06 35 06-1 12 06-2 10  
 07 42 07-1 3 07-2 A  
 08 (1) U (2) A 08-1 (1) U (2) B 08-2 (1) 10 (2) 9

### 연습문제 Step A & B

- 01 ④ 02  $a = 1$ ,  $b = 2$  03 9 04 9 05 6  
 06 ④ 07 ⑤ 08 12  
 09 4 10 7 11 ③ 12 ③ 13 20  
 14 18 15 ③ 16 1

## 04 명제

pp. 038~046

### 개념확인코너

- 1  $\neg$ ,  $\wedge$ ,  $\vee$   
 2 (1) 10은 2의 배수가 아니다. (2)  $2 + 5 \neq 8$   
 3 (1)  $x$ 는 홀수가 아니다. (2)  $x + 3 \neq 7$   
 4 (1)  $\{2, 4\}$  (2)  $\{1, 2\}$   
 5 풀이 참조  
 6 풀이 참조  
 7  $\neg$ ,  $\vee$   
 8 (1) 필요 (2) 충분 (3) 필요충분  
 9  $\neg$ ,  $\vee$

### 교과서 예제 & 유제

- 01 풀이 참조 01-1 풀이 참조 01-2 풀이 참조  
 02 (1)  $\{3, 6, 9\}$  (2)  $\{1, 2, 4, 5, 7, 8\}$  (3)  $\{1, 2, 3\}$  (4)  $\{4, 5, 6, 7, 8, 9\}$   
 02-1  $P = \{1, 2, 3, 4, 6, 12\}$ ,  $Q = \{2, 4\}$   
 03 (1) 참 (2) 거짓 (3) 거짓 03-1 (1) 참 (2) 거짓 (3) 거짓 03-2 3  
 04 풀이 참조 04-1 풀이 참조  
 05 ③ 05-1  $\neg$  05-2  $\neg$ ,  $\wedge$ ,  $\vee$   
 06 (1) 충분조건 (2) 필요충분조건 (3) 필요충분조건  
 06-1 (1) 충분조건 (2) 필요조건 (3) 필요충분조건  
 07 ④ 07-1 ③

### 연습문제 Step A & B

- 01 ③ 02 ③ 03 6 04 ③ 05 ②  
 06 ⑤ 07  $\neg$  08 -2  
 09 -2 10 ① 11 ③ 12 ⑤ 13  $\neg$ ,  $\wedge$   
 14 ④ 15 ④ 16 1

## 05 명제의 증명

pp. 048~056

### 개념확인코너

- 1 (1) 정리 (2) 정의 (3) 정리  
 2 풀이 참조  
 3  $\neg$ ,  $\supset$ ,  $\supset$   
 4 (1)  $a-b$  (2) 0, 0 (3) 2  
 5  $2b^2$ ,  $2b^2$ ,  $\geq$ ,  $\geq$ , 0

### 교과서 예제 & 유제

- 01 (가)  $\overline{PA}=\overline{PB}$ , (나)  $\angle BMP$ , (다)  $\triangle PBM$   
 01-1 (가)  $180^\circ$ , (나)  $\angle ABC$ , (다)  $180^\circ$   
 01-2 (가) 홀수, (나) 짝수, (다)  $m+n-1$ , (라) 짝수, (마) 짝수  
 02 ④  
 02-1 (가)  $n^2$ 은 짝수, (나)  $2k$ , (다) 짝수, (라) 대우  
 02-2 (가)  $a^2+b^2 \neq 0$ , (나)  $>$ , (다)  $>$ , (라) 참  
 03 (가)  $a^2+b^2$ , (나)  $|a||b|$ , (다)  $ab-|a||b|$   
 03-1 (가)  $\frac{3}{4}b^2$ , (나)  $a^2+b^2 \geq ab$ , (다)  $b=0$ , (라)  $a=b=0$   
 03-2 (가)  $\frac{3}{4}b^2$ , (나)  $a=b=0$   
 04 풀이 참조  
 04-1 (가)  $2\sqrt{ab}$ , (나)  $(\sqrt{b})^2$ , (다)  $\sqrt{b}$ , (라) 0, (마)  $a=b$   
 04-2 (1) 9 (2) 10  
 04-3 (1) 8 (2) 4

### 연습문제 Step A & B

- 01 ①, ⑤    02 (가)  $180^\circ$ , (나)  $\angle BOD$ , (다)  $\angle COD$   
 03 ④    04 2    05  $\supset$   
 06 (1) 48 (2) 4    07 10  
 08 ③, ⑤    09  $a^2+b^2+c^2 \neq 0$     10 4  
 11 (가)  $2abxy$ , (나)  $ay-bx$ , (다)  $ay=bx$     12 (1) 7 (2) 9  
 13 6    14 98

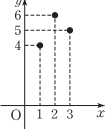
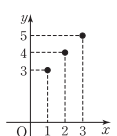
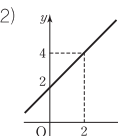
## 06 함수

pp. 058~066

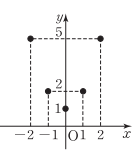
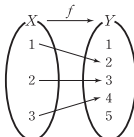
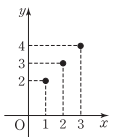
### 개념확인문제

- 1 (1)  $\neg$ ,  $\supset$ ,  $\supset$  (2)  $\supset$ ,  $\supset$ ,  $\supset$   
 2 (1) 9, 11, 13,  $y=2x+1$  (2) 3, 2, 1,  $y=\frac{12}{x}$     3  $\neg$ ,  $\supset$   
 4 (1) 3 (2) 1 (3)  $-10$  (4) 17

### 개념확인코너

- 1  $\supset$ ,  $\supset$   
 2 (1)  $\{1, 2, 3\}$  (2) 5 (3)  $\{4, 5, 6\}$  (4)   
 3 3  
 4 (1)  (2)   
 5 (1)  $\supset$ ,  $\supset$ ,  $\supset$  (2)  $\supset$ ,  $\supset$  (3)  $\supset$  (4)  $\supset$   
 6  $\neg$ ,  $\supset$     7 (1) 10 (2) 3    8 (1) 5 (2) 10

### 교과서 예제 & 유제

- 01 (1) 정의역:  $\{-2, -1, 0, 1, 2\}$ , 공역:  $\{1, 2, 3, 4, 5\}$  (2)  $\{1, 2, 5\}$  (3) 0  
 (4)   
 01-1 (1)  (2) 정의역:  $\{1, 2, 3\}$ , 치역:  $\{2, 3, 4\}$  (3) 

- 01-2 5    02  $a=3$ ,  $b=-2$   
 02-1  $a=1$ ,  $b=1$     02-2  $a=\pm 1$ ,  $b=-1$   
 03 (1)  $\neg$ ,  $\supset$ ,  $\supset$  (2)  $\neg$ ,  $\supset$  (3)  $\supset$  (4)  $\supset$     03-1 ④  
 04 1    04-1  $-3$     04-2 (1) 0 (2)  $a=0$  또는  $a=2$   
 05 13    05-1 8

### 연습문제 Step A & B

- 01  $\neg$ ,  $\supset$     02  $\neg$ ,  $\supset$ ,  $\supset$     03 ④    04 18    05  $-6$   
 06  $\supset$ ,  $\supset$     07 (1)  $\supset$ ,  $\supset$ ,  $\supset$  (2)  $\supset$ ,  $\supset$  (3)  $\supset$  (4)  $\neg$   
 08 11    09  $-15$     10 ④    11 20    12 24  
 13  $-9$     14  $-3$     15 ②

## 07 합성함수와 역함수

pp. 068~074

### 개념확인코너

- 1 (1) 1 (2) 6 (3) 2 (4) {2, 4, 6}  
 2 (1) 9 (2) 5 (3) 5 (4) 81  
 3 ㄷ  
 4 (1) b (2) 2 (3) 2 (4) c (5) {1, 2, 3}  
 5 (가) 일대일 대응, (나)  $y-2$ , (다)  $x-2$ , (라)  $x-2$   
 6 (1) 1 (2) 5 (3) 3 (4) 2

### 교과서 예제 & 유제

- 01 (1)  $(f \circ g)(x) = x^2 + 1$  (2)  $(g \circ f)(x) = x^2 + 4x + 3$   
 (3)  $(f \circ f)(x) = x + 4$   
 01-1 (1) 21 (2) 27 (3)  $(g \circ f)(x) = 2x^2 + 3$   
 (4)  $(f \circ g)(x) = 4x^2 - 4x + 3$   
 02 6 02-1 4  
 03 (1) 3 (2) 6 (3) 5 (4) 2  
 03-1 (1) 3 (2) 4 (3) 4 (4) 6  
 03-2 (1) 11 (2) 2 (3) 1  
 04 (1)  $f^{-1}(x) = \frac{1}{2}x + \frac{3}{2}$  (2)  $f^{-1}(x) = \frac{1}{3}x - \frac{1}{3}$   
 04-1 (1)  $y = -x + 2$  (2)  $y = 3x + 5$

### 연습문제 Step A & B

- 01 3 02 ⑤ 03 3 04 3 05 6  
 06 (1)  $f^{-1}(x) = x - 3$  (2)  $g^{-1}(x) = -\frac{1}{2}x + \frac{1}{2}$  07 5  
 08 ③  
 09  $k = -\frac{7}{2}$  또는  $k = 4$  10 0 11 2 12  $-\frac{5}{3}$   
 13 -1 14 2 15 2 16 ①

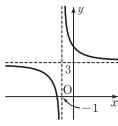
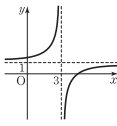
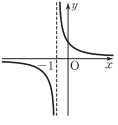
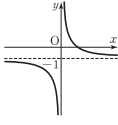
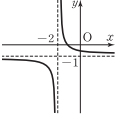
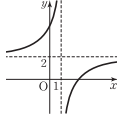
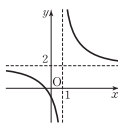
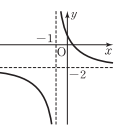
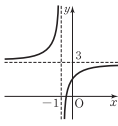
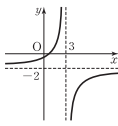
## 08 유리함수

pp. 076~082

### 개념확인코너

- 1 (1)  $\frac{3x^2}{y}$  (2)  $\frac{x-2}{x-1}$   
 2 (1)  $\frac{2(x+1)}{x(x+1)}, \frac{x}{x(x+1)}$   
 (2)  $\frac{3(x+2)}{(x-1)(x+1)(x+2)}, \frac{x(x+1)}{(x-1)(x+2)(x+1)}$   
 3 (1)  $\frac{2x+3}{x(x+1)}$  (2)  $\frac{2x-1}{(1-x)(1+x)}$   
 4 (1)  $\frac{x+1}{x^2}$  (2)  $\frac{x+1}{(x+3)^2}$  5 풀이 참조  
 6 (1) 3, 2, 5 (2) 1, -3, 6 7 (1)  $x=1, y=4$  (2)  $x=-3, y=-1$   
 8 (1)  $y = \frac{3}{x-1} + 2$  (2)  $y = \frac{2}{x+3} + 1$  (3)  $y = \frac{1}{x-2} + 3$

### 교과서 예제 & 유제

- 01 (1)  $\frac{x+2}{x+3}$  (2)  $\frac{3}{(x-2)(x+1)}$  (3)  $\frac{3x-1}{x-1}$   
 01-1 (1)  $\frac{x(2x+5)}{(x+1)(x-2)}$  (2)  $\frac{2}{x+1}$  (3)  $\frac{-2x-5}{x+4}$   
 02 (1)  $\frac{1}{(x+1)^2}$  (2)  $x+2$   
 02-1 (1)  $\frac{x+2}{x+1}$  (2)  $\frac{x}{3(x+1)}$   
 03 (1)   $x = -1, y = 3$  (2)   $x = 3, y = 1$   
 03-1 (1)   $x = -1, y = 0$  (2)   $x = 0, y = -1$   
 (3)   $x = -2, y = -1$  (4)   $x = 1, y = 2$   
 04  $a = -2, b = 2, c = 1$   
 04-1  $a = -1, b = -1, c = 1$   
 05 (1)   $x = 1, y = 2$  (2)   $x = -1, y = -2$   
 05-1 (1)   $x = -1, y = 3$  (2)   $x = 3, y = -2$   
 05-2  $a = 2, b = 4, c = 3$

### 연습문제 Step A & B

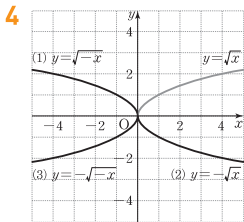
- 01 ⑤ 02 (1)  $\frac{3(x+1)}{x(x+3)}$  (2)  $\frac{1}{(x-1)^2}$  03 ㄴ, ㄹ  
 04 3 05 0 06 7 07 ② 08 4  
 09 6 10 ㄱ, ㄹ 11 1 12 3 13 ①  
 14 -1 15 3 16 ③

개념확인문제

- 1 (1) 30 (2) -48      2 (1) 0 (2) 2  
 3 (1) 2, 6.1,  $\frac{3}{5}$ ,  $\sqrt{4}$  (2)  $-\sqrt{5}$ ,  $\pi$ ,  $3\sqrt{2}$ ,  $\frac{5}{\sqrt{3}}$   
 4 (1)  $\sqrt{2}+7\sqrt{3}$  (2)  $5\sqrt{3}+3\sqrt{5}$  (3)  $4-2\sqrt{3}$  (4)  $3\sqrt{3}+6$   
 5 (1)  $\frac{\sqrt{15}}{5}$  (2)  $\frac{2\sqrt{3}-3}{3}$  (3)  $6+3\sqrt{3}$  (4)  $9-4\sqrt{5}$

개념확인코너

- 1 (1)  $x \geq -2$  (2)  $x > 1$  (3)  $-1 \leq x \leq 4$       2 (1)  $x+4$  (2)  $x$   
 3 (1)  $\frac{\sqrt{x+2}}{x+2}$  (2)  $\frac{2(\sqrt{x}-1)}{x-1}$



- 5 (1) 정의역:  $\{x|x \geq 2\}$ , 치역:  $\{y|y \geq 3\}$   
 (2) 정의역:  $\{x|x \leq 2\}$ , 치역:  $\{y|y \geq 3\}$   
 (3) 정의역:  $\{x|x \geq 2\}$ , 치역:  $\{y|y \leq 3\}$   
 (4) 정의역:  $\{x|x \leq 2\}$ , 치역:  $\{y|y \leq 3\}$   
 6 (1)  $y = \sqrt{2(x-3)}+3$   
 (2)  $y = \sqrt{-(x-3)}+1$   
 (3)  $y = -\sqrt{3(x+2)}-1$   
 (4)  $y = -\sqrt{-2(x+2)}-2$

교과서 예제 & 유제

- 01 (1) 2 (2) 2      01-1 (1)  $x-1$  (2) 1  
 02 (1)  $\frac{2\sqrt{x+3}}{x+2}$  (2)  $\frac{2(x+4)}{x-4}$   
 02-1 (1)  $\sqrt{x+1}-1$  (2)  $2(\sqrt{x+2}+\sqrt{x})$       02-2 (1)  $\frac{4\sqrt{x}}{x-4}$  (2)  $2\sqrt{x+4}$

- 03 (1) 정의역:  $\{x|x \geq 0\}$ , 치역:  $\{y|y \geq 0\}$   
 (2) 정의역:  $\{x|x \leq 0\}$ , 치역:  $\{y|y \geq 0\}$   
 (3) 정의역:  $\{x|x \geq 0\}$ , 치역:  $\{y|y \leq 0\}$   
 (4) 정의역:  $\{x|x \leq 0\}$ , 치역:  $\{y|y \leq 0\}$

- 03-1 (1) 정의역:  $\{x|x \geq 0\}$ , 치역:  $\{y|y \geq 0\}$

- (2) 정의역:  $\{x|x \leq 0\}$ , 치역:  $\{y|y \geq 0\}$

- (3) 정의역:  $\{x|x \geq 0\}$ , 치역:  $\{y|y \leq 0\}$

- (4) 정의역:  $\{x|x \leq 0\}$ , 치역:  $\{y|y \leq 0\}$

- 04 (1) 정의역:  $\{x|x \geq -1\}$ , 치역:  $\{y|y \geq 2\}$

- (2) 정의역:  $\{x|x \leq -1\}$ , 치역:  $\{y|y \geq -1\}$

- (3) 정의역:  $\{x|x \geq 2\}$ , 치역:  $\{y|y \leq 2\}$

- (4) 정의역:  $\{x|x \leq 1\}$ , 치역:  $\{y|y \leq 1\}$

- 04-1 (1) 정의역:  $\{x|x \geq -3\}$ , 치역:  $\{y|y \geq 0\}$

- (2) 정의역:  $\{x|x \leq 0\}$ , 치역:  $\{y|y \geq 2\}$

- (3) 정의역:  $\{x|x \geq -1\}$ , 치역:  $\{y|y \geq -2\}$

- (4) 정의역:  $\{x|x \geq -1\}$ , 치역:  $\{y|y \leq 1\}$

- 05  $a = -2$ ,  $b = 2$ ,  $c = 1$

- 05-1 5

- 05-2 5

연습문제 Step A & B

- 01 (1)  $x \geq 5$  (2)  $-1 < x \leq 3$       02 ①

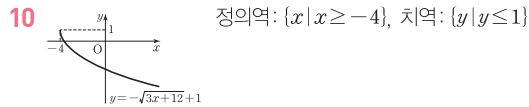
- 03 (1) 정의역:  $\{x|x \geq -2\}$ , 치역:  $\{y|y \leq 0\}$

- (2) 정의역:  $\{x|x \leq 0\}$ , 치역:  $\{y|y \geq 1\}$

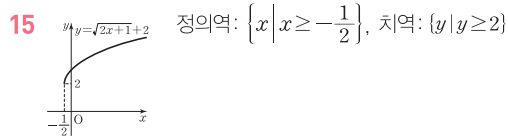
- 04 정의역:  $\{x|x \geq -1\}$ , 치역:  $\{y|y \geq -4\}$

05 7, 1, 2 06 1 07 4 08 ①

09 20



11 -4 12 12 13 4 14 4



16 제2사분면

## 10 경우의 수

pp. 094~100

### 개념확인문제

1 (1) 6 (2) 3 (3) 2 (4) 3 2 (1) 2 (2) 4  
3 5 4 4 5 12 6 12

### 개념확인코너

1 (1) 11 (2) 7 (3) 7 2 (1) 4 (2) 7  
3 (1) 12 (2) 36 (3) 8 4 (1) 15 (2) 12 (3) 12

### 교과서 예제 & 유제

01 7  
01-1 6 01-2 7 01-3 6  
02 6  
02-1 9  
03 (1) 12 (2) 12  
03-1 6 03-2 (1) 6 (2) 12  
04 (1) 6 (2) 10  
04-1 8

### 연습문제 Step A&B

01 ③ 02 5 03 6 04 ② 05 ⑤  
06 6 07 25 08 ⑤  
09 12 10 ① 11 ④ 12 44 13 6  
14 ② 15 ② 16 48

## 11 순열

pp. 103~108

### 개념확인코너

1 (1)  ${}_5P_2$  (2)  ${}_6P_4$  (3)  ${}_4P_4$  2 (1) 6 (2) 4  
3 (1) 6 (2) 24 (3) 5 (4) 60 4 (1) 3 (2) 5  
5 (1) 24 (2) 12 (3) 12 6 (1) 48 (2) 72

### 교과서 예제 & 유제

01 (1) 360 (2) 336 (3) 90  
01-1 (1) 2520 (2) 56 (3) 6 (4) 120  
02 (1) 5 (2) 3 (3) 7  
02-1 (1) 6 (2) 3 (3) 11 (4) 6  
03 (1) 60 (2) 720  
03-1 (1) 720 (2) 210 (3) 1680  
04 (1) 240 (2) 144 (3) 480  
04-1 (1) 240 (2) 144 (3) 72 (4) 144  
05 (1) 48 (2) 12  
05-1 (1) 1440 (2) 72

### 연습문제 Step A&B

01 ② 02 120 03 60 04 ⑤ 05 ④  
06 6 07 ③ 08 12  
09 8 10 3 11 ④ 12 13 13 ②  
14 180 15 ③ 16 120

## 12 조합

pp. 111~114

### 개념확인코너

1 (1)  ${}_6C_3$  (2)  ${}_{12}C_5$  (3)  ${}_{10}C_2$  2 (1) 10 (2) 35 (3) 1 (4) 1  
3 (1) 42 (2) 21 4 (1) 10 (2) 6 (3) 16 (4) 60

### 교과서 예제 & 유제

01 (1) 3 (2) 10 (3) 2  
01-1 3 01-2 (1) 62 (2) 5  
02 (1) 28 (2) 15  
02-1 (1) 10 (2) 35 (3) 3360 02-2 (1) 165 (2) 35 (3) 130  
03 (1) 4 (2) 52  
03-1 31

### 연습문제 Step A&B

01 ④ 02 15 03 ④ 04 10 05 ④  
06 84 07 18 08 ④  
09 15 10 20 11 ② 12 1260 13 ①  
14 440 15 12 16 ②