

I. 유리수의 표현과 식의 계산

- 8쪽** 1 (1) 유한 (2) 무한 (3) 무한
2 (1) 유 (2) 무 (3) 유 (4) 유 (5) 무 (6) 무
3 (1) 0.8333..., 무 (2) 1.75, 유 (3) 0.090909..., 무
(4) 0.444..., 무 (5) -0.3, 유 (6) -0.3157..., 무

- 9쪽** 1 (1) 순환소수이다 (2) 순환소수이다
(3) 순환소수가 아니다 2 (1) ○ (2) × (3) ○ (4) × (5) ○

- 3 (1) 5, 0.5̇ (2) 94, 0.894̇
4 (1) 5, 3.5̇ (2) 46, 1.46̇ (3) 27, 0.027̇
(4) 384, 0.384̇ (5) 267, 7.267̇ (6) 375, 1.1375̇

- 10~11쪽** 1 (1) (왼쪽에서부터) 3/3, 3, 3/375, 3/375/0.375
(2) (왼쪽에서부터) 2/3, 2, 2/8, 2/8/0.08
(3) (왼쪽에서부터) 2/2, 2, 2/14, 2/14/0.14
(4) (왼쪽에서부터) 2/5, 2, 5/45, 3/45, 3/45/0.045

- 2 (1) 2, 5, 있다 (2) 7, 없다 (3) 2, 있다 (3) 없다
3 (1) $\frac{4}{25}$, $\frac{4}{5}$, 유한소수 (2) $\frac{17}{33}$, $\frac{17}{3 \times 11}$, 순환소수
(3) $\frac{21}{88}$, $\frac{21}{2^3 \times 11}$, 순환소수 (4) $\frac{27}{40}$, $\frac{27}{2^3 \times 5}$, 유한소수
(5) $\frac{9}{28}$, $\frac{9}{2^2 \times 7}$, 순환소수 (6) $\frac{9}{80}$, $\frac{9}{2^4 \times 5}$, 유한소수

- 4 (1) 11, 11 (2) 7 (3) 3, 3 (4) 13 (5) 3, 3 (6) 7 (7) 21
12~13쪽 1 2, 222..., 2, 222..., 2, 2

- 2 (1) 10, 9, 9, $\frac{5}{3}$ (2) 100, 99, $\frac{205}{99}$
(3) 1000, 999, 999, $\frac{15}{37}$ (4) 1000, 999, $\frac{3151}{999}$
3 (1) 100, 10, 90, 90, $\frac{83}{45}$ (2) 1000, 10, 990, 990, $\frac{17}{55}$
(3) 1000, 100, 900, 900, $\frac{97}{450}$

- 4 (1) ㄴ (2) ㄴ (3) ㄹ (4) ㄴ (5) ㄹ (6) ㄴ
5 (1) $\frac{8}{9}$ (2) $\frac{41}{333}$ (3) $\frac{277}{90}$ (4) $\frac{29}{110}$ (5) $\frac{134}{55}$

- 14쪽** 1 (1) 6, $\frac{2}{3}$ (2) 99 (3) 173 (4) 2, 257
(5) 3, 999, $\frac{3424}{999}$ (6) $\frac{5}{11}$ (7) $\frac{1504}{333}$

- 2 (1) 6, $\frac{59}{90}$ (2) 65, 586, $\frac{293}{45}$ (3) 23, $\frac{2323}{990}$
(4) 17, 990, 1767, $\frac{589}{330}$ (5) $\frac{47}{90}$ (6) $\frac{3161}{990}$ (7) $\frac{71}{150}$

- 15쪽** 1 (1) ○ (2) × (3) ○ (4) ○ (5) × (6) ○
2 (1) ○ (2) × (3) ○ (4) ○ (5) ○ (6) ○ (7) ×
16쪽 1 (1) 1, 10 (2) 5¹¹ (3) y⁹ (4) 4, 4, 9 (5) 3¹⁴
(6) x¹¹ (7) a¹² (8) 2¹⁴

- 2 (1) 7, 12 (2) x⁵y⁴ (3) 3, 5, 5, 8 (4) a⁵b⁷ (5) 2⁹×5⁵ (6) x⁸y⁷
17쪽 1 (1) 2, 12 (2) 10⁹ (3) x²¹ (4) 5¹⁸
2 (1) 5, 15, 15, 16 (2) 7⁸ (3) a¹⁸ (4) 3²³
3 (1) 6, 8, 6, 8, 6, 8, 11, 8 (2) x¹⁰y¹⁵ (3) x¹⁶y⁸ (4) a¹⁸b³
(5) x²²y²⁸ (6) a¹²b¹¹

- 18쪽** 1 9, 5 (2) 1 (3) 8, 4 (4) 7⁴ (5) 1 (6) $\frac{1}{2^{13}}$
(7) 2, 2, 2 (8) x⁵
2 (1) 15, 12, 15, 12, 3 (2) $\frac{1}{x^2}$ (3) 1 (4) 12, 6, 12, 6, 4 (5) 5 (6) $\frac{1}{a^2}$

- 19쪽** 1 (1) 16, 4 (2) 27b³ (3) x⁵y⁵ (4) 9, 6 (5) a⁴b⁵
(6) x⁶y¹⁸ (7) 7 (8) 36b⁴ (9) -32a¹⁰b¹⁵

- 2 (1) 6 (2) $\frac{y^{12}}{81}$ (3) $\frac{x^{14}}{y^{21}}$ (4) 10, 15 (5) $\frac{y^{30}}{x^{24}}$ (6) $-\frac{a^{15}}{27}$
(7) 36, 6, 25, 4 (8) $\frac{b^{10}}{32a^5}$ (9) $\frac{9y^{14}}{16x^8}$

- 20쪽** 1 (1) x, 15xy (2) a⁴, 28a⁹
(3) $-\frac{1}{3}$, y³, -3x⁵y⁵ (4) 3, 3, -8, 3, -8a⁷b³

- 2 (1) 21xy (2) $-\frac{1}{3}a^2b$ (3) -2a⁵b⁸ (4) -x³y⁴ (5) 50xy²
(6) -81a⁴b⁶ (7) 24a⁵b⁹ (8) 80x⁵y¹² (9) -12x⁷y⁶

- 21쪽** 1 (1) 3a⁵, 3, a⁵, 5a (2) x², -2x⁵y
(3) $\frac{4}{3}$, x⁵, $\frac{8}{x^3}$ (4) 4a⁸b, $\frac{5}{4}$, a⁸b, $\frac{20b}{a^5}$

- 2 (1) $\frac{x^4}{4y}$ (2) 4xy (3) 12ab⁴ (4) $\frac{20b^2}{a}$
3 (1) x⁵y², 4x, 4, x²y², 2y⁷ (2) -3a⁶b (3) 18y²

- 22쪽** 1 (1) 4, a²b², 4, a²b², 4, a²b², 4a²b²
(2) -8a³, -8a³, 8, a³, 3a³ (3) 8, -4a²b³, 8, 4, 8, a²b³, -4a²b⁴

- 2 (1) x³ (2) $-\frac{7}{2}a$ (3) -96xy (4) $\frac{6}{y^2}$ (5) 12a⁶
(6) -x⁷y⁶ (7) $-\frac{50}{x^3y^2}$ (8) x³y⁶

- 23~24쪽** 1 (1) 4x, 6x+2y (2) b, a+8b (3) 5x+2y
(4) -7a-4b (5) -4x+y (6) 4a+16b (7) $x-\frac{6}{5}y$

- 2 (1) 3y, 3y, 2x+7y (2) 6a, 6a, 15a+b (3) -7a-11b
(4) 11x+8y (5) x-y (6) -20a+11b (7) $-\frac{1}{2}x+\frac{4}{5}y$

- 3 (1) $\frac{1}{2}a-\frac{5}{6}b$ (2) $\frac{1}{6}x-\frac{2}{3}y$ (3) $\frac{17}{20}x+\frac{7}{10}y$
(4) $\frac{1}{6}x+\frac{5}{3}y$ (5) $-\frac{7}{12}a+\frac{5}{6}b$

- 4 (1) 13x-8y (2) 4a (3) 5x (4) 7x-6y (5) 2a+2b+2

- 25쪽** 1 (1) ○ (2) × (3) ○ (4) × (5) ○ (6) ×
2 (1) 4x, 4x²+2x-2 (2) -2x²+2x-3 (3) 2x²+2x-3
(4) -7x²-4x+1 (5) 7x, 7x, 8x²-3x-5
(6) x²+3x+13 (7) 12x²+7x+5 (8) 18a²-11a+2

- 26쪽** 1 (1) 2ab (2) 4y² (3) -4a² (4) 3xy
2 (1) 2x²+2x (2) -10y+15y² (3) -2ab-4a
(4) 4x²-3xy (5) 8a²+12a (6) -6x²-8xy (7) 6a²-4ab
(8) -4a²+8ab+28a (9) 10x²+15x-5xy
(10) -xy+3y²-6y

- 27쪽** 1 (1) b, -6a²b, -6a²+b (2) 5x+3
(3) 3a-2 (4) -2y+3 (5) -3b+2a (6) -xy-6y

- 2 (1) $\frac{2}{b}$, $\frac{2}{b}$, $\frac{2}{b}$, 6a-10b (2) 8x+24 (3) 15ab+10a
(4) -20x-12y (5) -20a-10b (6) -4x+12y

- 28쪽** 1 (1) 6a, $\frac{3}{2b}$, $\frac{3}{2b}$, 6a, 12b, -2a²+3a+12b
(2) -5a, -5a, 6a², -a, 6a², -6a²+8a-2
(3) 4x²y², 4x²y², 4x²y², 6x, y, 6x, 2x²-3x-y

- 2 (1) 4a²-5ab (2) 2x²-x-6 (3) 3x²+x
(4) 6a²+6ab+6a (5) 2a²-3ab-3a+1
(6) -2x-3y+3

29~31쪽 대단원 개념 마무리

- 1 ㄱ, ㄷ, ㄱ, ㄱ, ㄱ

- 2 (1) 64, 0.64̇ (2) 2, 2.12̇ (3) 201, -1.201̇ (4) 4, 0.054̇
3 ㄱ, ㄴ, ㄱ, ㄱ, ㄱ

- 5  6 (1) $\frac{103}{999}$ (2) $\frac{23}{9}$ (3) $\frac{463}{90}$ (4) $\frac{469}{330}$
7 ㄱ, ㄷ

- 8 (1) 7⁷ (2) a⁹b² (3) x¹⁰y⁵ (4) x⁹ (5) 5¹⁶ (6) a¹⁰b²³

- 9 (1) 1 (2) y² (3) $\frac{1}{x^4}$ (4) 8a⁶b³ (5) 16x⁶y⁸ (6) $-\frac{27y^{18}}{x^9}$

- 10 (1) 12x⁶ (2) -10x⁴y³ (3) 32a⁴b⁸ (4) 2x (5) $\frac{10b^2}{a}$
(6) $-\frac{15y^3}{x^2}$ 11 (1) 3a⁵ (2) -2xy⁷ (3) $\frac{5b^{11}}{a^5}$

- 12 (1) 2x+6y (2) 2a-12b (3) 16x+9y (4) $\frac{2}{3}a+\frac{1}{2}b$
(5) $-\frac{1}{6}x+\frac{1}{12}y$ (6) 6a-2b (7) -x-2y

- 13 (1) 3x²-x+2 (2) 4x²-6x+13 (3) 3x²+5x+14

- 14 (1) 15x²+10xy (2) -6ab+10b² (3) -12xy+3y²+8y
(4) -5-3y (5) $\frac{x}{2}-3y^2$ (6) -8ab+6b²

- 15 (1) -3x²-3 (2) -2a²+5b²+ $\frac{5}{2}$

II. 부등식과 연립방정식

- 34쪽** 1 (1) ○ (2) ○ (3) × (4) ×

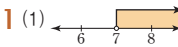
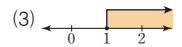
- 2 (1) > (2) < (3) ≤ (4) ≤ (5) > (6) ≤

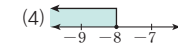
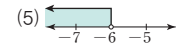
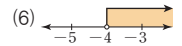
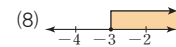
- 3 (1) 3×2-1=5, >, 거짓 / 3×3-1=8, >, 거짓 /
(2) -1+3=2, =, 참 / -2+3=1, <, 참 /
-3+3=0, <, 참 / 1, 2, 3
(3) -4×1+1=-3, =, 거짓 / -4×2+1=-7, <, 참 /
-4×3+1=-11, <, 참 / 2, 3

- 35쪽** 1 (1) > (2) > (3) 2, > (4) -9, <

- 2 (1) ≤, ≤, ≤ (2) >, >, > (4) ≤

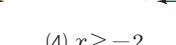
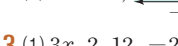
- 3 (1) <, <, < (2) < (3) ≥ (4) <

- 36쪽** 1 (1)  (2)  (3) 

- (4)  (5)  (6) 
(7)  (8) 

- 2 (1) x≥6 (2) x<-5 (3) x>-2 (4) x≥-9
(5) x≤3 (6) x<4 (7) x≤-1 (8) x>8

- 37쪽** 1 (1) x-5, ○ (2) x, ○ (3) 3, × (4) -3x+1, ○

- 2 (1) 3, 1,  (2) x≤-2, 
(3) x<-3,  (4) x≥-2, 

- 3 (1) 3x, 2, 12, -2 (2) x≥-1 (3) x<-3 (4) x≤2 (5) x≥5

- 38~39쪽** 1 (1) 6, -6, 1, $\frac{1}{2}$ (2) x≤1 (3) x≤ $-\frac{5}{3}$
(4) x≤3 (5) x>-1 2 (1) 10x, 10x, -9, -5 (2) x≥- $\frac{1}{2}$

- (3) x>4 (4) x≤6 (5) x< $\frac{5}{3}$

- 3 (1) 6, 8x, 6, 6 (2) x≤-12 (3) x<-7 (4) x<5 (5) x≤-1

- 4 (1) a, $\frac{5+a}{3}$, $\frac{5+a}{3}$, 12, 7 (2) 3 (3) 11 (4) -2

- 40~41쪽** 1 (1) 2x-6 (2) 2x-6≤40 (3) x≤23 (4) 23
2 7 3 (1) 10-x, 500(10-x) (2) 1000x+500(10-x)≤7000
(3) x≤4 (4) 4자루

- 4 5장 5 (1) $\frac{1}{2} \times (5+x) \times 8$
(2) $\frac{1}{2} \times (5+x) \times 8 \leq 56$ (3) x≤9 (4) 9 cm

- 6 23 cm 7 (1) 550x, 1440 (2) 700x>550x+1440
(3) x> $\frac{48}{5}$ (4) 10승이 8 6권

- 42쪽**

- 1 (1) x km, $\frac{x}{4}$ 시간 (2) $\frac{7}{2}$, $\frac{x}{3} + \frac{x}{4} \leq \frac{7}{2}$ (3) x≤6 (4) 6 km

- 2 (1) $\frac{x}{4}$ 시간, $\frac{1}{2}$ 시간, $\frac{x}{4}$ 시간 (2) 2, $\frac{x}{4} + \frac{1}{2} + \frac{x}{4} \leq 2$
(3) x≤3 (4) 3 km

- 43쪽** 1 (1) × (2) × (3) ○ (4) × (5) ○
(6) 5x-y-6, ○ (7) y, ×

- 2 (1) 3x+4y=34 (2) 4x+5y=91 (3) 800x+1200y=5600
(4) $\frac{9}{2}x=y$ (5) $\frac{x}{4} + \frac{y}{6} = 5$

- 44쪽** 1 (1) ○, 4, 3, 24, 해이다 (2) × (3) × (4) ○
(5) × 2 (1) 4, 1, -2 / (1, 4), (2, 1)

- (2) 7, 5, 3, 1, -1 / (1, 7), (2, 5), (3, 3), (4, 1)
(3) 7, 4, 1, -2 / (1, 7), (2, 4), (3, 1)

- (4) 6, 4, 2, 0 / (1, 6), (2, 4), (3, 2)

- 45쪽** 1 2, 4, 4, 8, 10/3, 3, 5, 7, 9 / (3, 4)
2 (1) 1, 2, 1, 2, ○ (2) × (3) ○

- 3 (1) a=-2, b=3 (2) a=2, b=2 (3) a=-2, b=-3

- 46쪽** 1 (1) 2x, 2, 3, 3, 6 (2) x=-1, y=2 (3) x=2, y=1
(4) x=4, y=-2 (5) 2y+5, 2y+5, 7, -2, -2, 1

- (6) x=-3, y=2 (7) x=1, y=-1 (8) x=3, y=-1

- 47쪽** 1 (1) +, 7, 2, 2, 4, 4 (2) x=10, y=4 (3) x=3, y=3
(4) x=2, y=9 (5) -40, 27, -35, -70, 2, 2, 18, -4
(6) x=3, y=4 (7) x=2, y=3 (8) x=5, y=-5

- 48~49쪽** 1 (1) 5x-2y, 9, 1, 1, 4, $\frac{1}{2}$ (2) 3, 2 / x=-2, y=4
(3) x=5, y=-3 2 (1) 10, 5, -2, -2, 6, 6, 18, 14
(2) 3, 4, 2 / x=-1, y=1 (3) x=2, y=2
(4) x=10, y=13 (5) x=1, y=1

- 3 (1) 12, 2, 3, 8, 6, 2, 2, 4, $\frac{16}{3}$ (2) 2, 8 / x=4, y=2
(3) x=10, y=12 (4) x=6, y=-6 (5) x=4, y=0

- 4 (1) 2, 5, 3, -12 / x=-3, y=2 (2) x=-1, y=3
(3) x=3, y=2

- 50쪽** 1 (1) 3x+2y, x-2y / x=2, y=-1
(2) x=3, y=1 (3) 4x-y, 3x+y / x=2, y=1 (4) x=3, y=1

- 2 (1) $\frac{x-y}{2}$, $\frac{x-3y}{3} / x=\frac{3}{2}$, y=- $\frac{1}{2}$
(2) $\frac{-x+4y}{2}$, $\frac{2x+y}{5} / x=6$, y=3

- (3) $\frac{x-y}{3}$, $\frac{3x-y}{2} / x=-1$, y=-7

51쪽

- 1 (1) 해가 무수히 많다. 9, 15, 무수히 많다 (2) 해가 무수히 많다.
(3) 해가 무수히 많다. (4) 해가 무수히 많다. (5) 해가 없다. 4, 16, 없다
(6) 해가 없다. (7) 해가 없다. (8) 해가 없다.

- 52~53쪽** 1 (1) 2000x, 3000y, 48000
(2) $\begin{cases} x+y=20 \\ 2000x+3000y=48000 \end{cases}$ (3) x=12, y=8 (4) 12승이

- 2 (1) 2x, 4y, 94 (2) $\begin{cases} x+y=35 \\ 2x+4y=94 \end{cases}$
(3) x=23, y=12 (4) 23마리, 12마리

- 3 (1) y, x, 10y+x (2) $\begin{cases} x+y=9 \\ 10y+x=(10x+y)+9 \end{cases}$
(3) x=4, y=5 (4) 45

- 4 (1) x+14, y+14 (2) $\begin{cases} x-y=40 \\ x+14=3(y+14) \end{cases}$
(3) x=46, y=6 (4) 46세, 6세

- 54쪽** 1 (1) 시속 60km, 시속 4km / $\frac{x}{60}$ 시간, $\frac{y}{4}$ 시간
(2) $\frac{3}{2}$, $\begin{cases} x+y=48 \\ \frac{x}{60} + \frac{y}{4} = \frac{3}{2} \end{cases}$ (3) x=45, y=3 (4) 3km

68쪽

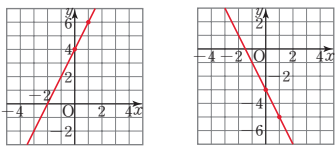
1 (1) +4, 4, 4, 1 (2) +2, $\frac{2}{3}$ (3) -2, -2, 3, $-\frac{2}{3}$

(4) -4, -2 2 (1) 4 (2) $\frac{3}{2}$ (3) -5

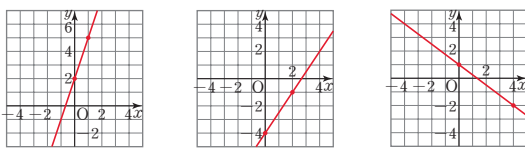
3 (1) 7, 3, 1 (2) -4, -5, $-\frac{1}{5}$ (3) -1, 3, $\frac{2}{3}$

69쪽

1 (1) 4, 4, 6, 4, 6 (2) -3, -3, -5, -3, -5

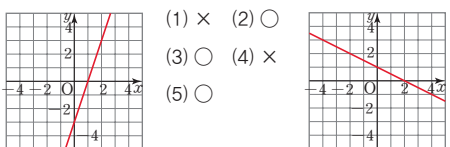


2 (1) 3, 2 (2) $\frac{3}{2}$, -4 (3) $-\frac{3}{4}$, 1



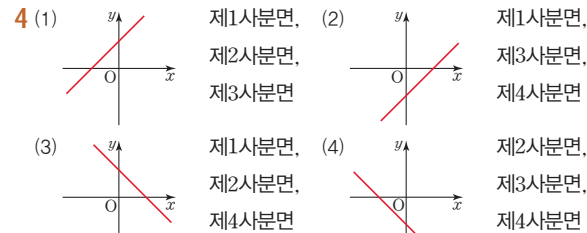
70~71쪽

1 (1) × (2) ○ (3) ○ (4) × (5) ×



3 (1) ㄱ, ㄷ, ㄹ (2) ㄴ, ㄹ, ㅁ (3) ㄱ, ㄷ, ㄹ (4) ㄴ, ㄹ, ㅁ

(5) ㄴ, ㅁ (6) ㄷ, ㄹ, ㅁ



2 (1) (-1, 4), (1, 1), $y = -\frac{3}{2}x + \frac{5}{2}$

(2) (1, 1), (4, 7), $y = 2x - 1$

(3) (-2, 1), (3, 4), $y = \frac{3}{5}x + \frac{11}{5}$

(4) (-4, 2), (1, -3), $y = -x - 2$

76쪽

1 (1) 2, $\frac{2}{5}$, $\frac{2}{5}x + 2$ (2) $y = -\frac{4}{3}x - 4$ (3) $y = \frac{7}{2}x + 7$

(4) $y = -2x + 6$

2 (1) -5, 8, $y = \frac{8}{5}x + 8$ (2) 2, 4, $y = -2x + 4$

(3) 6, -4, $y = \frac{2}{3}x - 4$ (4) -2, -2, $y = -x - 2$

77~78쪽 1 (1) $y = 35 + 3x$ (2) 21, 56, 56 (3) 65, 3x, 10, 10

2 (1) $y = 50 - 2x$ (2) 34 cm

3 (1) $y = 20 - 6x$ (2) 24, -4, -4 (3) -10, 6x, 5, 5

4 (1) 2°C (2) $y = 10 + 2x$ (3) 18분

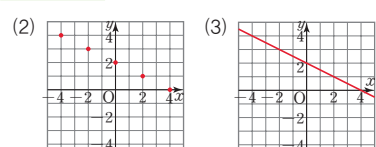
5 (1) $\frac{3}{2}$ L (2) $y = 7 + \frac{3}{2}x$ (3) 18, 25, 25 (4) 40, $\frac{3}{2}x$, 22, 22

6 (1) $\frac{1}{10}$ L (2) $y = 50 - \frac{1}{10}x$ (3) 30 L (4) 500 km

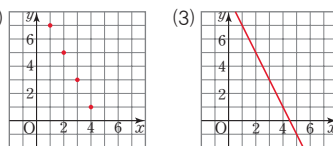
7 (1) $y = 420 - 70x$ (2) 140, 280, 280 (3) 140, 70x, 4, 4

8 (1) $y = 80 - 15x$ (2) 35 km (3) 4시간

79쪽 1 (1) 4, 3, 2, 1, 0

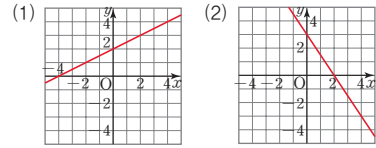


2 (1) 11, 9, 7, 5, 3, 1 (2)



80쪽 1 (1) $-x - 4$, $\frac{1}{2}x + 2$, $\frac{1}{2}$, -4, 2

(2) $-3x + 6$, $-\frac{3}{2}x + 3$, $-\frac{3}{2}$, 2, 3



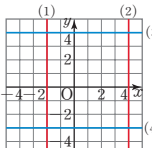
2 (1) × (2) × (3) ○ (4) ○ (5) ○

3 (1) ○ (2) × (3) ○ (4) × (5) ×

81쪽 1 (1) -2, y

(2) 12, 4, 4, y (3) 4, x

(4) -6, -3, -3, x



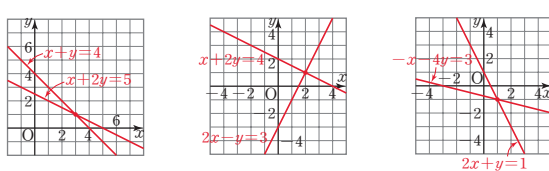
2 (1) $x = 5$ (2) $y = -6$

3 (1) $y = -1$ (2) $x = 2$ (3) $x = -2$ (4) $y = 3$

82쪽 1 (1) $x = 3$, $y = 1$ (2) $x = 1$, $y = -\frac{3}{2}$

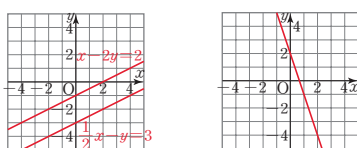
2 1, 3, -2, -1, -2, -1

3 (1) $x = 3$, $y = 1$ (2) $x = 2$, $y = 1$ (3) $x = 1$, $y = -1$



83쪽

1 (1) 해가 없다. (2) 해가 무수히 많다.



2 (1) $\frac{1}{3}$, $\frac{b}{9}$, -3, -9 (2) $a = -2$, $b = -3$ (3) $a = -7$, $b = 7$

3 (1) -4, 8 (2) $\frac{1}{2}$ (3) 6

84~86쪽 대단원 개념 마무리

1 (1) ○ (2) ○ (3) × (4) × 2 (1) 6 (2) -3 (3) -4 (4) -6

3 (1) $12 - x$, ○ (2) $\frac{x}{2}$, ○ (3) $\frac{100}{x}$, ×

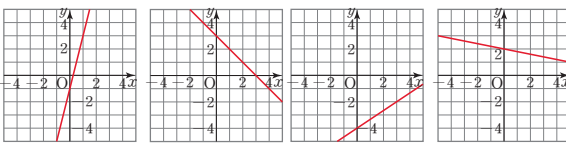
4 (1) $y = 3x - 5$ (2) $y = -\frac{6}{5}x + 4$ (3) $y = -9x + 1$

(4) $y = \frac{3}{8}x + \frac{9}{2}$

5 (1) 3, -9 (2) $\frac{3}{4}$, 6 (3) $-\frac{4}{3}$, -1

6 (1) 5 (2) $\frac{1}{3}$ (3) $-\frac{5}{8}$ 7 (1) -6 (2) -1 (3) $\frac{2}{3}$

8 (1) (2) (3) (4)



9 (1) ㄱ, ㄷ, ㄹ (2) ㄴ, ㄹ, ㅁ (3) ㄷ, ㄹ, ㅁ (4) ㄴ, ㅁ

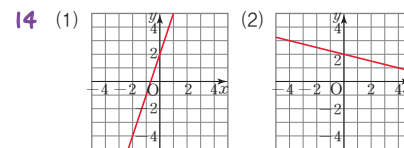
10 (1) -5 (2) $-\frac{1}{6}$

11 (1) $a = -2$, $b = -8$ (2) $a = 3$, $b = -5$

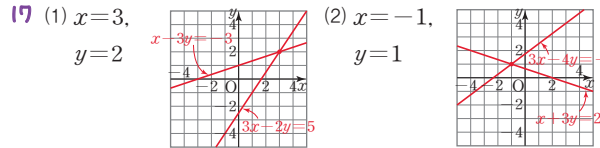
12 (1) $y = 8x - 3$ (2) $y = -\frac{1}{3}x + 2$ (3) $y = -2x + 5$

(4) $y = \frac{5}{2}x - 8$ (5) $y = \frac{1}{2}x + \frac{7}{2}$ (6) $y = \frac{1}{2}x - 4$

13 94°C



16 (1) $y = 6$ (2) $x = 4$ (3) $x = 7$ (4) $y = -4$



18 (1) $a = 12$, $b = -\frac{5}{3}$ (2) $a = -2$, $b = 4$

19 (1) $-\frac{5}{3}$ (2) -3

익힘북

2~10쪽 I. 유리수의 표현과 식의 계산

1 ㄱ, ㄷ, ㄹ, ㅁ 2 ㄱ, ㄷ, ㅁ

3 (1) 0.7̇ (2) -1.28̇ (3) -2.043̇ (4) 3.512̇ (5) 31.231̇

4 (1) 0.032 (2) 0.175

5 유한소수: ㄱ, ㄷ, ㅁ, ㅂ / 순환소수: ㄴ, ㄷ, ㄹ, ㅁ, ㅂ

6 (1) 7 (2) 3 (3) 9 (4) 21 7 (1) ㄱ (2) ㄴ (3) ㄷ (4) ㅁ

8 (1) $\frac{7}{9}$ (2) $\frac{124}{99}$ (3) $\frac{542}{999}$ (4) $\frac{142}{45}$ (5) $\frac{97}{330}$ (6) $\frac{80}{37}$

9 (1) 8 (2) 27, $\frac{3}{11}$ (3) 2, $\frac{245}{99}$ (4) 5, $\frac{49}{90}$ (5) 123, 900, $\frac{371}{300}$

10 (1) $\frac{1}{3}$ (2) $\frac{61}{33}$ (3) $\frac{161}{999}$ (4) $\frac{17}{90}$ (5) $\frac{1081}{495}$ (6) $\frac{86}{75}$

11 4개

12 (1) × (2) × (3) ○ (4) ○ (5) × (6) ○ (7) × (8) × (9) ○

13 (1) x^5 (2) 7^9 (3) a^8 (4) b^{12}

(5) x^6y^2 (6) $2^9 \times 3^8$ (7) a^5b^6 (8) $x^{10}y^3$

14 (1) x^{10} (2) a^{16} (3) 5^{18} (4) $x^{13}y^{16}$

(5) $a^{12}b^{28}$ (6) $x^{17}y^{17}$ (7) $x^{15}y^{12}$ (8) $a^{23}b^{24}$

15 (1) x^3 (2) $\frac{1}{7^5}$ (3) x^4 (4) 1 (5) x^{10} (6) $\frac{1}{3^5}$ (7) x^5 (8) $\frac{1}{a^5}$

16 (1) $64x^3$ (2) a^6b^6 (3) x^8y^6 (4) $-8a^9b^{15}$

(5) $\frac{a^3}{b^{12}}$ (6) $\frac{32}{y^{15}}$ (7) $-\frac{y^9}{x^{12}}$ (8) $\frac{125b^{18}}{27a^9}$

17 (1) $35x^5$ (2) $12x^7y^5$ (3) $4a^5b^7$ (4) $2x^{10}y^{10}$

(5) $-4a^2b^7$ (6) $36x^{14}y^{14}$ (7) $-6a^{15}b^{18}$ (8) $\frac{72}{5}x^{17}y^{12}$

18 (1) $3x$ (2) $\frac{5y}{x}$ (3) $-18a^4b^2$ (4) $\frac{9x^2}{2y}$

(5) $-\frac{7a^2}{9b^{11}}$ (6) $\frac{9}{y^2}$ (7) $\frac{12y^3}{x}$ (8) $-\frac{b^2}{16a^2}$

19 (1) $-3x^4$ (2) $24a^4b^6$ (3) $8x^9y^2$ (4) $-\frac{9}{16}a^{15}b^{14}$

(5) $\frac{2}{9}x^5y^7$ (6) $-\frac{1}{3}a^2b^{11}$ (7) $\frac{2}{x^2y^4}$ (8) $-\frac{24a^{12}}{b^3}$

20 (1) $7x + y$ (2) $-2a + 9b$ (3) $-3y$ (4) $-\frac{1}{3}x + \frac{2}{5}y$

(5) $\frac{1}{4}x + \frac{3}{4}y$ (6) $\frac{17}{5}x - \frac{4}{5}y$ (7) $\frac{11}{12}x + \frac{7}{6}y$

(8) $-\frac{1}{15}a + \frac{4}{15}b$

21 (1) $3x + y$ (2) $5x - 4y$ (3) $-6a + 5b$ (4) $3a - 8b$

(5) $-13a - 7b$ (6) $-a + 7b$ (7) x (8) $x - 17y$

22 ㄱ, ㄷ, ㅁ, ㅂ

23 (1) $5x^2 - 6x + 5$ (2) $2x^2 - 3$ (3) $5a^2 - a - 2$

(4) $-2x^2 - 2x - 1$ (5) $a^2 - 3a + 4$ (6) $-x^2 + 10$

24 (1) $6x^2 + 3x$ (2) $6a^2 - 9ab$ (3) $-4x^2 + 6xy$

(4) $-9xy + 12y^2$ (5) $-6x^2 + 4xy - 2x$ (6) $-3ab + 9b^2 - 12b$

(7) $4xy - 6y^2 + 3y$ (8) $9a^2 - 3ab - 6a$

25 (1) $4x + 2$ (2) $\frac{x^2}{y} - 4y$ (3) $\frac{3}{2}x - 2y$ (4) $ab^3 - 3a^3$

(5) $10y + 6x^2$ (6) $3x - 2x^3y$ (7) $-21a^2 + 14b^2$

(8) $-2x + 20x^2y^3$

26 (1) $5x^2 - 4y^3$ (2) $5a^3 + 7a^2b^2$ (3) $7x^4y^2 + 4x^2y$ (4) $a^3b^3 - 2ab$

(5) $x + 8$ (6) $-4a^2b^4 - b$ (7) xy (8) $-3a - b$

11~18쪽 II. 부등식과 연립방정식

1 (1) $x < 3$ (2) $x \geq 5$ (3) $x - 5 \geq 8$ (4) $1500 + 900x > 7000$

2 (1) -1 (2) -1, 0 (3) 0, 1 (4) -1, 0

3 (1) $\geq$ (2) $<$ (3) $\geq$ (4) $<$

4 (1) $<$ (2) $>$ (3) $\geq$ (4) $\leq$

5 (1) (2) (3)

(4) (5)

6 (1) $x \leq -2$ (2) $x > 10$ (3) $x < -5$ (4) $x \geq 9$ (5) $x > -7$

7 ㄱ, ㄷ, ㅁ

8 (1) $x \geq 2$ (2) $x < -3$ (3) $x < -3$ (4) $x < 2$ (5) $x \leq -2$

(6) $x \geq 3$

9 (1) $x \geq 2$ (2) $x < -1$ (3) $x < 3$ (4) $x \geq 5$ (5) $x > -2$

(6) $x \geq -5$

10 (1) 4 (2) -1 (3) 1

11 25, 26, 27

12 94점 13 9개 14 16cm 15 9cm 16 15개 17 63장

18 3km 19 5km 20 1200m 21 ㄱ, ㄷ

22 (1) $7x - 2y = 59$ (2) $2x + 4y = 38$ (3) $\frac{5}{2}(x + 8) = y$

23 (1) 8, 6, 4, 2, 0 / (1, 8), (2, 6), (3, 4), (4, 2)

(2) 9, 6, 3, 0, -3 / (1, 9), (2, 6), (3, 3)

(3) 6, $\frac{9}{2}$, 3, $\frac{3}{2}$, 0 / (1, 6), (3, 3)

24 ㄱ, ㄷ

25 (1) $a = -2$, $b = 1$ (2) $a = 2$, $b = -4$ (3) $a = -7$, $b = -3$

(4) $a = -1$, $b = 2$

26 (1) $x = 2$, $y = 1$ (2) $x = 4$, $y = -5$ (3) $x = -3$, $y = -7$

(4) $x = 4$, $y = 3$ (5) $x = 1$, $y = 2$ (6) $x = 3$, $y = 2$

27 (1) $x = 2$, $y = 4$ (2) $x = 3$, $y = 2$ (3) $x = 3$, $y = 5$

(4) $x = 1$, $y = -2$ (5) $x = 2$, $y = -1$ (6) $x = -2$, $y = 1$

28 (1) $x = 2$, $y = 3$ (2) $x = 2$, $y = -3$ (3) $x = 2$, $y = 3$

(4) $x = 1$, $y = 1$ (5) $x = -2$, $y = 5$ (6) $x = \frac{1}{2}$, $y = -3$

29 (1) $x = 1$, $y = 2$ (2) $x = 1$, $y = -1$ (3) $x = -1$, $y = 2$

30 (1) $x = 1$, $y = 7$ (2) $x = 3$, $y = 6$ (3) $x = 6$, $y = 6$

31 (1) 해가 없다. (2) 해가 무수히 많다. (3) 해가 없다.

(4) 해가 무수히 많다. (5) 해가 무수히 많다. (6) 해가 없다.

32 3개, 6개

33 48

34 14세, 41세

35 8cm

36 1km, 1km

37 85km

38 2km

39 10km

19~28쪽 III. 일차함수

1 (1) ○ (2) ○ (3) ×

2 (1) $y = 3x$ (2) $y = \frac{24}{x}$ (3) $y = 20x$ (4) $y = \frac{300}{x}$ (5) $y = 40x$

3 (1) 2 (2) -8 (3