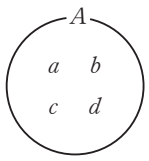
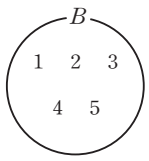
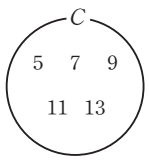
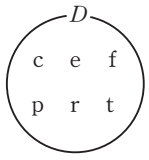
1 집합

6 ~ 22쪽

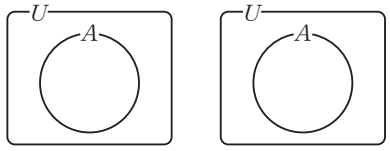
001 ○
002 ×
003 ○
004 ×
005 $\notin$
006 $\in$
007 $\in$
008 $\notin$
009 $A=\{1, 2, 3, 4, 6, 12\}$
010 $B=\{5, 10, 15, 20, 25, 30\}$
011 $C=\{-3, 3\}$
012 $D=\{2, 3, 5, 7, 11, 13\}$
013 $A=\{x \mid x$는 30 이하의 자연수$\}$
014 $B=\{x \mid x$는 3의 배수$\}$
015 $C=\{x \mid x$는 15의 양의 약수$\}$
016 $D=\{x \mid x$는 20 이하의 소수$\}$
017


018


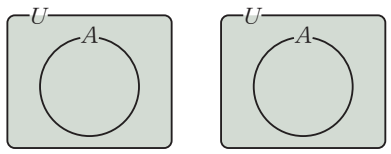
019


020


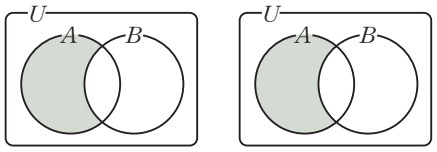
021 유
022 무
023 무
024 유
025 유
026 무
027 $n(A)=50$
028 $n(B)=6$
029 $n(C)=0$
030 $n(D)=1$
031 2
032 3
033 $\subset$
034 $\subset$
035 $\not\subset$
036 $\subset$
037 $A \subset B$
038 $B \subset A$
039 $B \subset A$
040 $A \subset B$
041 $B \subset A$
042 $\varnothing$, $\{1\}$, $\{7\}$, $\{1, 7\}$
043 $\varnothing$, $\{1\}$, $\{3\}$, $\{9\}$, $\{1, 3\}$, $\{1, 9\}$, $\{3, 9\}$, $\{1, 3, 9\}$
044 $\varnothing$, $\{2\}$, $\{3\}$, $\{5\}$, $\{2, 3\}$, $\{2, 5\}$, $\{3, 5\}$, $\{2, 3, 5\}$
045 ○
046 ○
047 ×
048 ×
049 ○
050 ○
051 $A=B$
052 $A=B$
053 $A \neq B$
054 $a=3$, $b=2$
055 $a=6$, $b=5$
056 $a=5$, $b=-3$
057 $\varnothing$, $\{1\}$, $\{3\}$
058 $\varnothing$, $\{-1\}$, $\{0\}$, $\{1\}$, $\{-1, 0\}$, $\{-1, 1\}$, $\{0, 1\}$
059 $\varnothing$, $\{1\}$, $\{5\}$, $\{25\}$, $\{1, 5\}$, $\{1, 25\}$, $\{5, 25\}$
060 8
061 32
062 16
063 128
064 64
065 256
066 7
067 127
068 255
069 16
070 8
071 3
072 64
073 32
074 16
075 4
076 8
077 32
078 8
079 16
080 $A \cup B=\{2, 4, 6, 8\}$, $A \cap B=\{2, 6\}$
081 $A \cup B=\{a, b, c, d\}$, $A \cap B=\varnothing$
082 $A \cup B=\{1, 3, 5, 7, 9, 15\}$, $A \cap B=\{1, 3, 5\}$
083 $A \cup B=\{2, 3, 4, 5, 7\}$, $A \cap B=\{2, 5, 7\}$
084 $A \cup B=\{2, 4, 6, 8, 9, 10, 12\}$, $A \cap B=\{4, 8\}$
085 $A \cup B=\{1, 3, 4, 5, 9\}$, $A \cap B=\{3\}$
086 ○
087 ×
088 ×
089 ○
090 ○
091 $\{2, 4, 6, 8, 9\}$
092 $\{1, 5, 7, 9\}$
093 $\{4, 5, 7, 8, 9\}$
094 $\{1, 3, 15, 17, 19\}$
095 $\{9, 11, 17, 19\}$
096 $\{7, 9, 11, 13, 17, 19\}$
097 $A-B=\{5\}$, $B-A=\varnothing$
098 $A-B=\{3, 8, 9\}$, $B-A=\{1, 7, 10\}$
099 $A-B=\{c, f, g\}$, $B-A=\{a\}$
100 $A-B=\varnothing$, $B-A=\{16\}$
101 $A-B=\{2\}$, $B-A=\{1, 9\}$
102 $A-B=\{3, 12, 15, 18\}$, $B-A=\{4, 5, 7, 8, 10\}$
103 $\{4, 8, 12, 24\}$
104 $\{8, 24\}$
105 $\{4, 12\}$
106 $\{1, 2, 3, 6\}$
107 $\{1, 2, 3, 6, 8, 24\}$
108 $\{8, 24\}$
109 8
110 9
111 6
112 1
113 4
114 6
115 $A \cap A^C$ = $\varnothing$



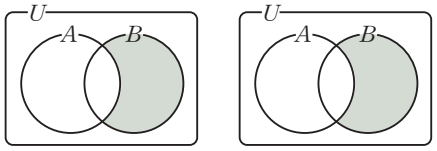
116 $A \cup A^C$ = U



117 $A\cap B^C$ = $A-B$



118 $B-A$ = $B\cap A^C$



119 A **120** A

121 A **122** $\varnothing$

123 B **124** U

125 U **126** $\varnothing$

127 B **128** U

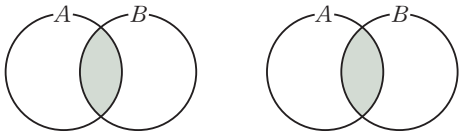
129 A **130** A^C

131 × **132** ○

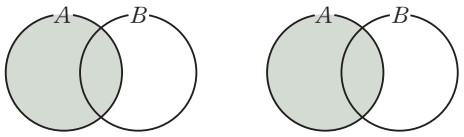
133 × **134** ×

135 ○ **136** ×

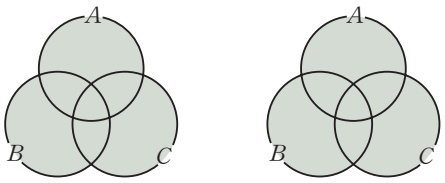
137 $A\cap B$ = $B\cap A$



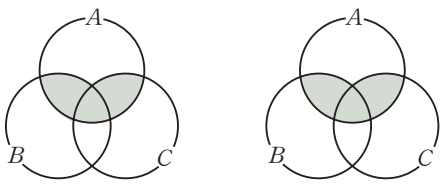
138 $A\cup(B\cap A)$ = A



139 $(A\cup B)\cup C$ = $A\cup(B\cup C)$



140 $A\cap(B\cup C)$ = $(A\cap B)\cup(A\cap C)$

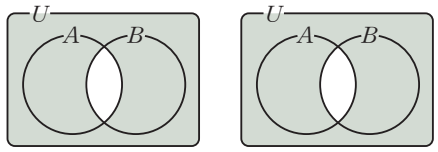


141 ∪ **142** B

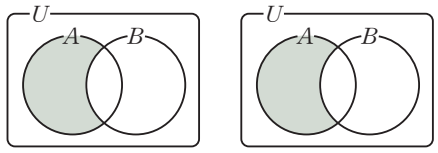
143 C **144** ∩, ∩

145 A, C

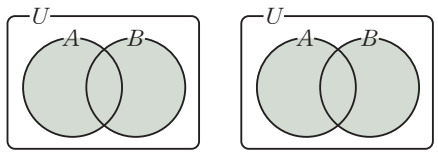
146 $(A\cap B)^C$ = $A^C\cup B^C$



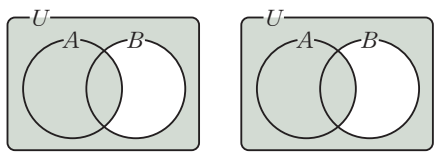
147 $(A^C\cup B)^C$ = $A\cap B^C$



148 $(A^C\cap B^C)^C$ = $A\cup B$



149 $(A^C\cap B)^C$ = $A\cup B^C$



150 ∩ **151** ∪

152 B **153** B^C

154 A^C **155** ∩

156 ㄷ **157** ㄱ, ㄴ

158 ㄹ, ㄱ, ㄴ **159** B, U, ∪

160 A^C, A^C, $\varnothing$, A^C, A **161** B, B, $\varnothing$, $\varnothing$

162 B^C, B, B, ∩, $\varnothing$, B **163** 18

164 8 **165** 15

166 20 **167** 14

168 15 **169** 15

170 25 **171** 21

172 36 **173** 4

174 11 **175** 31

176 20 **177** 13

178 38 **179** 18

180 7

181 7 **182** ④

183 ② **184** 16

185 ⑤ **186** ③

187 36 **188** 35

2 명제 23 ~ 34쪽

189 ×
190 ○
191 ×
192 ×
193 ○
194 ×
195 참
196 거짓
197 참
198 거짓
199 거짓
200 참
201 {1, 3, 5, 7}
202 {4, 5, 6, 7, 8}
203 {1, 4, 6, 8}
204 {1, 3}
205 {3, 5, 6, 7, 8}
206 {1, 2, 6, 7, 8}
207 {3, 4, 5}
208 {5}
209 {2, 3, 5}
210 {1, 2, 8, 9, 10}
211 {1, 3, 4}
212 {2, 3, 4, 5, 6, 8, 10}
213 3은 홀수가 아니다.
214 $x\neq2$ 그리고 $x\neq4$
215 $1\in\{1, 3, 5\}$
216 5는 소수가 아니다. (거짓)
217 $\varnothing\subset\{1, 2, 3\}$ (참)
218 $2+7\leq9$ (참)
219 $x\geq2$
220 $x<2$ 또는 $x\geq6$
221 $x<2$
222 {4, 5, 6, 7}
223 {4, 5}
224 {1, 4, 5, 6, 7, 8}
225 가정: a, b가 모두 홀수이다., 결론: $a+b$는 짝수이다.
226 가정: $x=2$이다., 결론: $3x+2=10$이다.
227 가정: $x>3$이다., 결론: $x>2$이다.
228 가정: n이 4의 배수이다., 결론: $2n$은 8의 배수이다.
229 참
230 거짓
231 거짓
232 참
233 참
234 거짓
235 참
236 거짓
237 ×
238 ○
239 ○
240 ×
241 ○
242 ○
243 거짓
244 참
245 참
246 거짓
247 참
248 어떤 자연수 x에 대하여 $3x-2\leq0$이다. (거짓)
249 모든 마름모는 정사각형이 아니다. (거짓)
250 어떤 소수는 홀수가 아니다. (참)
251 모든 실수 x에 대하여 $x^2\geq0$이다. (참)
252 모든 유리수 x, y에 대하여 $xy\neq2$이다. (거짓)
253 역: $p\longrightarrow q$, 대우: $\sim p\longrightarrow\sim q$
254 역: $\sim q\longrightarrow p$, 대우: $q\longrightarrow\sim p$
255 역: $p\longrightarrow\sim q$, 대우: $\sim p\longrightarrow q$
256 역: $\sim q\longrightarrow\sim p$, 대우: $q\longrightarrow p$
257 역: $x=3$이면 $x^2=9$이다.,
대우: $x\neq3$이면 $x^2\neq9$이다.
258 역: 4의 양의 약수이면 8의 양의 약수이다.,
대우: 4의 양의 약수가 아니면 8의 양의 약수가 아니다.
259 역: 참, 대우: 거짓
260 역: 참, 대우: 거짓
261 역: 거짓, 대우: 참
262 역: 거짓, 대우: 참
263 역: 참, 대우: 참
264 역: 거짓, 대우: 참
265 ×
266 ○
267 ×
268 ○
269 ×
270 ○
271 충분조건
272 필요조건
273 필요조건
274 충분조건
275 필요조건
276 필요충분조건
277 필요조건
278 필요충분조건
279 충분조건
280 필요조건
281 필요충분조건
282 충분조건
283 -2 또는 2
284 6
285 $a\geq2$
286 $a\leq3$
287 1
288 $a\leq6$
289 홀수, 홀수, 1, 홀수
290 풀이 참조
291 유리수, 2, 2, 2, 2
292 풀이 참조
293 ×
294 ○
295 ×
296 ○
297 ×
298 ○
299 $\frac{3}{4}b^2$, $\frac{3}{4}b^2$, $\geq$, $\frac{3}{4}b^2$, 0
300 풀이 참조
301 $\frac{1}{2}(\sqrt{a}-\sqrt{b})^2$, $a=b$
302 풀이 참조
303 2
304 8
305 2
306 6
307 9
308 최댓값: $2\sqrt{2}$, 최솟값: $-2\sqrt{2}$
309 최댓값: $2\sqrt{5}$, 최솟값: $-2\sqrt{5}$
310 최댓값: $2\sqrt{13}$, 최솟값: $-2\sqrt{13}$
311 18
312 20
313 ④
314 ㄱ, ㄷ
315 9
316 ②
317 ㄱ, ㄹ
318 8
319 ㄴ, ㄹ
320 15

3 함수

36 ~ 49쪽

001 ○
002 ×
003 ×
004 ○
005 정의역: {1, 2, 3}, 공역: {a, b, c}, 치역: {a, b, c}
006 정의역: {1, 2, 3}, 공역: {a, b, c, d}, 치역: {a, c}
007 정의역: {1, 2, 3, 4}, 공역: {a, b, c}, 치역: {b, c}
008 정의역: {1, 2, 3, 4}, 공역: {a, b, c, d}, 치역: {a, b, c}
009 {−1}
010 {−1, 1, 3}
011 {−1, 0}
012 {−1, 2, 3}
013 {2, 3, 6}
014 {1, 2, 3}
015 −1
016 1
017 0
018 −5
019 −11
020 −11
021 서로 같은 함수이다.
022 서로 같은 함수가 아니다.
023 서로 같은 함수가 아니다.
024 서로 같은 함수가 아니다.
025 서로 같은 함수가 아니다.
026 서로 같은 함수이다.
027 $a=1$, $b=0$
028 $a=-1$, $b=0$
029 $a=-\frac{3}{2}$, $b=\frac{5}{2}$
030 $a=1$, $b=-6$
031 $a=-11$, $b=-8$
032 ○
033 ×
034 ○
035 ×
036 ㄱ, ㄴ
037 ㄱ, ㄴ, ㄷ
038 ㄹ
039 ㄱ
040 ㄱ, ㄴ, ㅂ
041 ㄱ, ㄴ, ㅂ
042 ㄱ
043 ㄷ
044 ㄱ, ㄴ, ㄷ
045 ㄱ, ㄴ
046 ㄹ
047 ㄱ, ㄴ
048 ㄱ, ㄴ
049 $a=1$, $b=3$
050 $a=1$, $b=3$
051 $a=2$, $b=-4$
052 $a=-3$, $b=14$
053 $a=-2$, $b=8$
054 $a=-2$, $b=-3$
055 2
056 3
057 1
058 c
059 a
060 $\frac{3}{2}$
061 7
062 −26
063 6
064 −1
065 33
066 2
067 13
068 26
069 5
070 2
071 2
072 $(g\circ f)(x)=4x^2-3$
073 $(f\circ g)(x)=-2x^2+6$
074 $(f\circ g)(x)=-\frac{1}{2}x+5$
075 $(g\circ f)(x)=-\frac{1}{2}x-1$
076 $(f\circ(g\circ h))(x)=2x+4$
077 $((f\circ g)\circ h)(x)=2x+4$
078 −2
079 −3
080 $\frac{2}{3}$
081 $\frac{4}{3}$
082 $\frac{5}{9}$
083 $h(x)=3x+8$
084 $h(x)=\frac{1}{2}x+\frac{1}{2}$
085 $h(x)=-x^2+3$
086 $h(x)=-2x+7$
087 $h(x)=\frac{1}{4}x+1$
088 $h(x)=x^2+2x-2$
089 $f^n(x)=x-2n$
090 $f^n(x)=x+3n$
091 $f^n(x)=2^nx$
092 −1
093 1
094 2
095 ○
096 ×
097 ×
098 ○
099 2
100 4
101 3
102 3
103 $\frac{1}{2}$
104 2
105 4
106 2
107 5
108 8
109 5
110 6
111 $a=-1$, $b=5$
112 $a=-\frac{5}{2}$, $b=-\frac{1}{2}$
113 $a=2$, $b=-6$
114 $y=\frac{1}{2}x-\frac{1}{2}$
115 $y=\frac{1}{4}x+2$
116 $y=-\frac{1}{3}x+\frac{2}{3}$
117 $y=3x-9$
118 $y=-\frac{5}{2}x+10$
119 1
120 −4
121 2
122 19
123 $-\frac{7}{3}$
124 9
125 1
126 −5
127 −17
128 $\frac{7}{4}$
129 $\frac{1}{4}$
130 a
131 b
132 b
133 e
134 c
135 c
136 b
137 a
138 10
139 5
140 ②
141 ①
142 1
143 23
144 ④
145 ③

4 유리함수

146 $\frac{2x+3}{x+1}$

147 $\frac{x+1}{x+4}$

148 $\frac{2x-1}{x(x-1)}$

149 $\frac{x+7}{(x-2)(x+1)}$

150 $\frac{x+8}{(x+3)(x-3)}$

151 $\frac{2x-7}{(x-1)(x-2)}$

152 $\frac{2}{x}$

153 $\frac{1}{x(x-3)}$

154 $\frac{x+4}{x(x-4)}$

155 $\frac{x}{(x-1)(x+5)}$

156 $\frac{x-3}{(x+1)(x+5)}$

157 $\frac{x+1}{(x-2)(x-4)}$

158 $\frac{2}{(x+1)(x-1)}$

159 $\frac{18}{(x-4)(x+5)}$

160 $\frac{7}{(x-3)(x+4)}$

161 $\frac{x+5}{(x+2)(x+3)}$

162 $\frac{6}{(x-4)(x+2)}$

163 $\frac{1}{x-1}-\frac{1}{x}$

164 $\frac{1}{x+1}-\frac{1}{x+2}$

165 $\frac{1}{x-1}-\frac{1}{x+1}$

166 $\frac{1}{2}\left(\frac{1}{x}-\frac{1}{x+2}\right)$

167 $\frac{1}{3}\left(\frac{1}{x+1}-\frac{1}{x+4}\right)$

168 ○

169 ×

170 ×

171 ×

172 ○

173 ○

174 $\{x|x\neq0$인 실수$\}$

175 $\left\{x\middle|x\neq\frac{1}{2}\text{인 실수}\right\}$

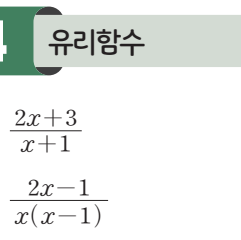
176 $\{x|x$는 모든 실수$\}$

177 $\{x|x\neq-2$인 실수$\}$

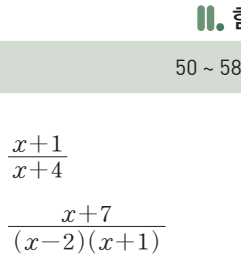
178 $\{x|x\neq-1, x\neq1$인 실수$\}$

179 $\{x|x$는 모든 실수$\}$

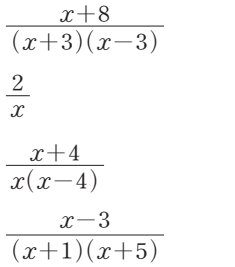
180



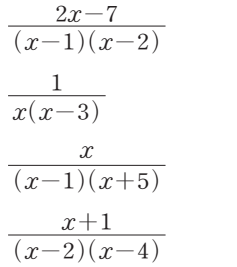
181



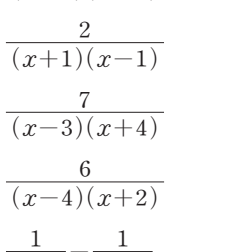
182



183



184



185 $y=\frac{1}{x-2}+1$

186 $y=-\frac{1}{x-1}-3$

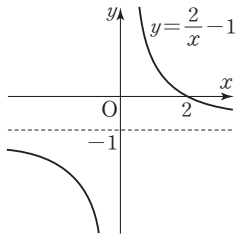
187 $y=\frac{4}{x+2}+4$

188 $y=-\frac{5}{x-6}-1$

189 $y=\frac{1}{3(x+4)}+3$

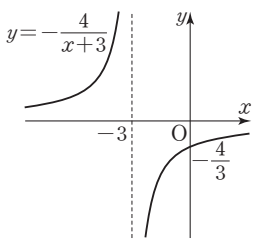
190 $y=-\frac{3}{2(x+5)}-2$

191



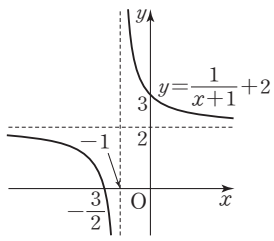
점근선의 방정식: $x=0$, $y=-1$
정의역: $\{x|x\neq0$인 실수$\}$
치역: $\{y|y\neq-1$인 실수$\}$

192



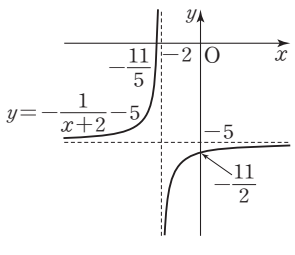
점근선의 방정식: $x=-3$, $y=0$
정의역: $\{x|x\neq-3$인 실수$\}$
치역: $\{y|y\neq0$인 실수$\}$

193



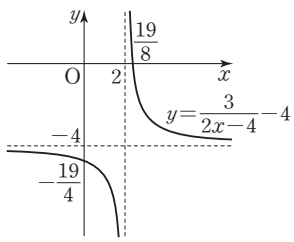
점근선의 방정식: $x=-1$, $y=2$
정의역: $\{x|x\neq-1$인 실수$\}$
치역: $\{y|y\neq2$인 실수$\}$

194



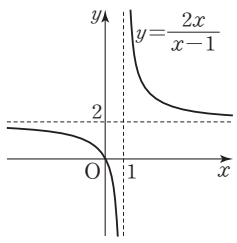
점근선의 방정식:
$x=-2$, $y=-5$
정의역: $\{x|x\neq-2$인 실수$\}$
치역: $\{y|y\neq-5$인 실수$\}$

195



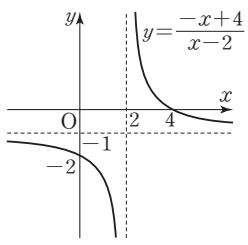
점근선의 방정식: $x=2$, $y=-4$
정의역: $\{x|x\neq2$인 실수$\}$
치역: $\{y|y\neq-4$인 실수$\}$

196



점근선의 방정식: $x=1$, $y=2$
정의역: $\{x|x\neq1$인 실수$\}$
치역: $\{y|y\neq2$인 실수$\}$

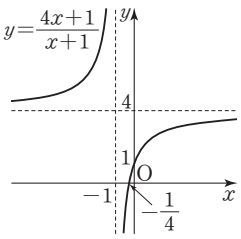
197



점근선의 방정식: $x=2$, $y=-1$
정의역: $\{x|x\neq2$인 실수$\}$
치역: $\{y|y\neq-1$인 실수$\}$

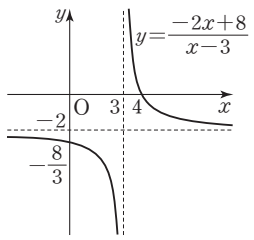
5 무리함수 59 ~ 66쪽

198 $y=\frac{4x+1}{x+1}$



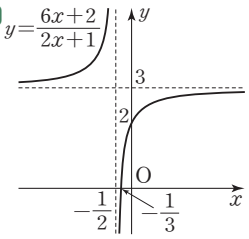
점근선의 방정식: $x=-1$, $y=4$
정의역: $\{x|x\neq-1$인 실수$\}$
치역: $\{y|y\neq4$인 실수$\}$

199 $y=\frac{-2x+8}{x-3}$



점근선의 방정식: $x=3$, $y=-2$
정의역: $\{x|x\neq3$인 실수$\}$
치역: $\{y|y\neq-2$인 실수$\}$

200 $y=\frac{6x+2}{2x+1}$

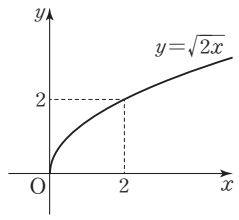


점근선의 방정식: $x=-\frac{1}{2}$, $y=3$
정의역: $\left\{x\middle|x\neq-\frac{1}{2}$인 실수$\right\}$
치역: $\{y|y\neq3$인 실수$\}$

201 ○
202 ×
203 ○
204 ○
205 ×
206 ○
207 5
208 1
209 -2
210 $-\frac{5}{2}$
211 $-\frac{8}{3}$
212 $a=2$, $b=-4$, $c=-1$
213 $a=-1$, $b=0$, $c=2$
214 $a=-4$, $b=8$, $c=-3$
215 $a=3$, $b=9$, $c=1$
216 최댓값: 0, 최솟값: -2
217 최댓값: 2, 최솟값: $\frac{4}{3}$
218 최댓값: $\frac{14}{5}$, 최솟값: 2
219 최댓값: $-\frac{4}{3}$, 최솟값: $-\frac{5}{3}$
220 최댓값: $\frac{7}{4}$, 최솟값: $-\frac{9}{8}$
221 $y=\frac{x}{1-x}$
222 $y=\frac{3x-1}{x+2}$
223 $y=\frac{2x+5}{x+3}$
224 $y=\frac{5x+1}{2-2x}$
225 $y=\frac{4x+7}{3x-1}$
226 -1
227 -2
228 -3
229 -4
230 4
231 ⑤
232 ①
233 ①
234 ④
235 6
236 1
237 ⑤

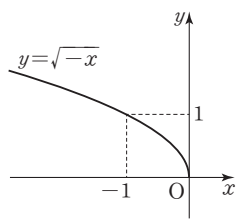
238 $x\geq-1$
239 $x\geq\frac{5}{2}$
240 $x>2$
241 $x<4$
242 $-2\leq x\leq3$
243 $3\leq x<5$
244 $\sqrt{x}-2$
245 $\sqrt{x}+3$
246 $\sqrt{x+1}+1$
247 $\sqrt{x+3}+\sqrt{x+1}$
248 $\frac{\sqrt{1+x}+\sqrt{1-x}}{2}$
249 $2\sqrt{x}$
250 $-\frac{4}{x}$
251 $2x$
252 $-\sqrt{2}$
253 $-\sqrt{3}$
254 $6+4\sqrt{2}$
255 ○
256 ×
257 ×
258 ○
259 ×
260 ○
261 $\{x|x\geq2\}$
262 $\left\{x\middle|x\geq-\frac{3}{2}\right\}$
263 $\{x|x\leq2\}$
264 $\{x|x\leq5\}$
265 $\{x|-2\leq x\leq2\}$

266



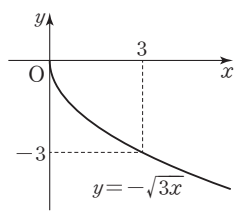
정의역: $\{x|x\geq0\}$
치역: $\{y|y\geq0\}$

267



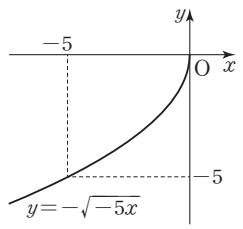
정의역: $\{x|x\leq0\}$
치역: $\{y|y\geq0\}$

268



정의역: $\{x|x\geq0\}$
치역: $\{y|y\leq0\}$

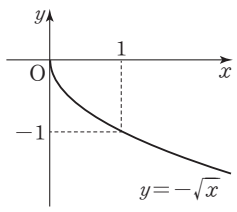
269



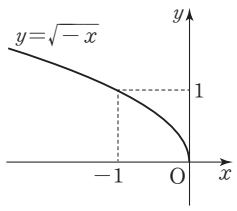
정의역: $\{x|x\leq0\}$
치역: $\{y|y\leq0\}$

빠른정답

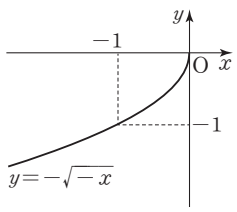
270 $y=-\sqrt{x}$



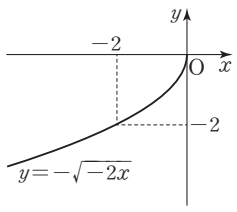
271 $y=\sqrt{-x}$



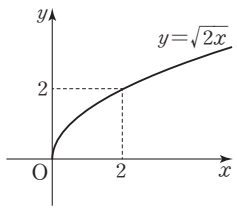
272 $y=-\sqrt{-x}$



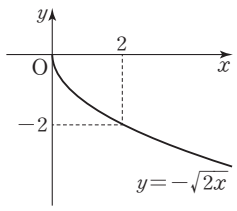
273 $y=-\sqrt{-2x}$



274 $y=\sqrt{2x}$



275 $y=-\sqrt{2x}$



276 $y=\sqrt{3x-3}+2$

277 $y=-\sqrt{5x-10}-4$

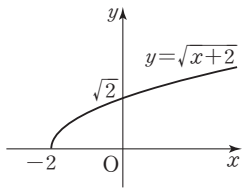
278 $y=-\sqrt{-2x-6}+5$

279 $y=\sqrt{-x-3}+2$

280 $y=-\sqrt{2x}+7$

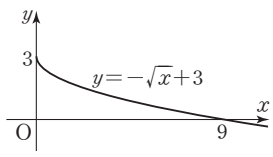
281 $y=-\sqrt{-3x+9}-1$

282



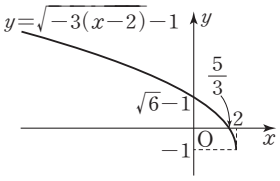
정의역: $\{x|x\geq -2\}$
치역: $\{y|y\geq 0\}$

283



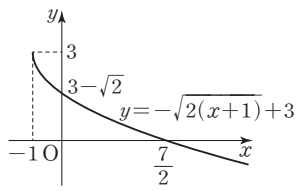
정의역: $\{x|x\geq 0\}$
치역: $\{y|y\leq 3\}$

284 $y=\sqrt{-3(x-2)}-1$



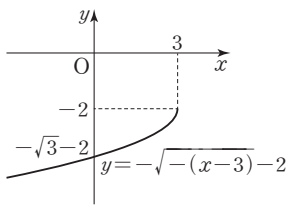
정의역: $\{x|x\leq 2\}$
치역: $\{y|y\geq -1\}$

285



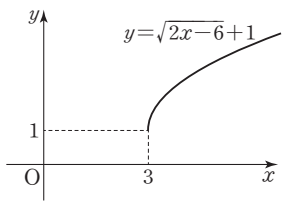
정의역: $\{x|x\geq -1\}$
치역: $\{y|y\leq 3\}$

286



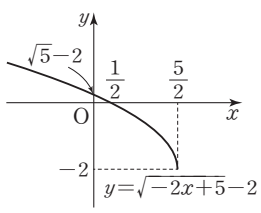
정의역: $\{x|x\leq 3\}$
치역: $\{y|y\leq -2\}$

287



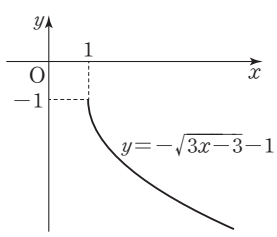
정의역: $\{x|x\geq 3\}$
치역: $\{y|y\geq 1\}$

288



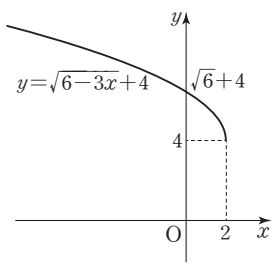
정의역: $\left\{x\middle|x\leq \frac{5}{2}\right\}$
치역: $\{y|y\geq -2\}$

289



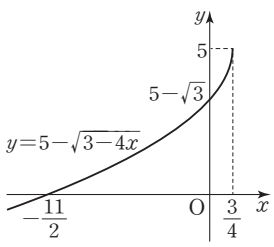
정의역: $\{x|x\geq 1\}$
치역: $\{y|y\leq -1\}$

290



정의역: $\{x|x\leq 2\}$
치역: $\{y|y\geq 4\}$

291



정의역: $\left\{x\middle|x\leq \frac{3}{4}\right\}$
치역: $\{y|y\leq 5\}$

292 $a=2$, $b=4$, $c=1$

293 $a=-1$, $b=1$, $c=-1$

294 $a=3$, $b=9$, $c=4$

295 $a=-4$, $b=16$, $c=2$

296 최댓값: 2, 최솟값: -2
297 최댓값: 7, 최솟값: 5
298 최댓값: 3, 최솟값: 2
299 최댓값: -2, 최솟값: -5
300 최댓값: 4, 최솟값: 2
301 $1 \le k < \frac{5}{4}$
302 $k<2$ 또는 $k=\frac{9}{4}$
303 $k<-\frac{13}{4}$
304 $k \ge -\frac{5}{2}$
305 $y=x^2+3\ (x \ge 0)$
306 $y=-\frac{1}{4}(x-1)^2+\frac{3}{4}\ (x \ge 1)$
307 $y=\frac{1}{2}(x-2)^2-3\ (x \le 2)$
308 $y=-\frac{1}{3}(x+5)^2-\frac{2}{3}\ (x \le -5)$
309 $y=-\frac{1}{3}(x+4)^2+2\ (x \ge -4)$
310 ②
311 ②
312 -21
313 ③
314 11
315 ③
316 ④
317 $2\sqrt{2}$

6 경우의 수

68 ~ 80쪽

001 11
002 12
003 23
004 7
005 5
006 12
007 12
008 2
009 9
010 6
011 7
012 7
013 10
014 12
015 8
016 32
017 210
018 24
019 12
020 6
021 6
022 8
023 10
024 31
025 6
026 9
027 12
028 15
029 12
030 16
031 24
032 108
033 48
034 48
035 72
036 24
037 360
038 120
039 1
040 1
041 720
042 144
043 840
044 336
045 14400
046 7
047 5
048 6
049 4
050 0
051 2
052 56
053 24
054 72
055 60
056 120
057 12
058 4
059 20
060 120
061 60
062 48
063 96
064 36
065 30
066 10번째
067 $cdba$
068 30
069 35412
070 240
071 48
072 144
073 72
074 96
075 72
076 1440
077 480
078 72
079 1152
080 72
081 24
082 108
083 432
084 576
085 6
086 1
087 1
088 7
089 56
090 $n=6$
091 $n=12$
092 $r=6$
093 $n=8$
094 $n=724$
095 21
096 84
097 120
098 15
099 10
100 18
101 40
102 150
103 525
104 1960
105 15
106 5
107 20
108 56
109 210
110 52
111 456
112 310
113 1440
114 64800
115 240
116 15
117 20
118 14
119 18
120 31
121 72
122 30
123 60
124 ②
125 15
126 ④
127 1728
128 ②
129 60
130 ⑤
131 54

빠른정답

9종 교과서 필수 문제

1 집합 82 ~ 83쪽

1 ③ 2 ② 3 5 4 ④
5 63 6 24 7 5 8 ⑤
9 ② 10 ③ 11 ① 12 8

2 명제 84 ~ 85쪽

1 ② 2 ③ 3 ③ 4 ④
5 ⑤ 6 $a>1$ 7 5 8 ⑤
9 ④ 10 -10 11 ③ 12 ②

3 함수 86 ~ 87쪽

1 ① 2 12 3 ③ 4 2
5 ② 6 ① 7 ④ 8 4
9 501 10 ② 11 6 12 ⑤

4 유리함수 88 ~ 89쪽

1 -8 2 ③ 3 $\frac{1}{3}$ 4 ⑤
5 3 6 15 7 4 8 ②
9 ④ 10 4 11 ③ 12 ②

5 무리함수 90 ~ 91쪽

1 ④ 2 ① 3 5 4 ④
5 -1 6 제2사분면 7 ⑤ 8 $\left(-\frac{8}{3}, 0\right)$
9 ⑤ 10 ③ 11 $(3, 3)$ 12 ④

6 경우의 수 92 ~ 93쪽

1 6 2 4 3 ④ 4 ③
5 ① 6 *dbaec* 7 ③ 8 120
9 ④ 10 ② 11 7 12 45