

数 学

●2月1日 実施

I

(1) ①	$10a^2+20ab+10b^2-a-b-3$	(2) ②	$(x-3)(x+2)(x+3)$
(3) ③	-3	(4) ⑦	3
(5) ⑩	9	(6) ⑬	$\frac{1}{216}$
(8) ⑰	$\frac{15(\sqrt{6}+\sqrt{2})}{4}$	(9) ⑱	$3x^2+4x-3$
(11) ㉑	-2	(12) ㉓	$-\frac{5}{18}$
(13) ㉔	$\frac{23}{27}$	(14) ⑭	$\frac{1}{36}$ (または $\frac{6}{216}$)
(15) ⑮	4	(16) ⑯	4
(17) ⑰	13	(18) ⑱	$3x^2+4x-3$
(19) ⑲	$3 < x < 9$	(20) ⑳	4
(21) ㉑	-2	(22) ㉒	$\frac{64}{3}$
(23) ㉓	$-\frac{5}{18}$	(24) ㉔	$\frac{23}{27}$

㉑, ㉒は順不同

●2月9日 実施

I

(1) ①	$\frac{19}{33}$	(2) ②	$\frac{1}{2}$	(3) ③	$(a+b+c)(a+b-c)(a-b+c)(a-b-c)$
(4) ④	$3(m+\frac{2}{9})(m-2)$	(5) ⑤	$-\frac{2}{9} < m < 2$	(6) ⑥	200
(7) ⑩	$y = -4x^2 + 24x - 26$	(8) ⑪	24	(9) ⑫	120
(10) ⑬	2.880	(11) ⑭	$\frac{1}{35}$	(12) ⑮	$\frac{12}{35}$
(13) ⑯	$\frac{18}{35}$	(14) ⑰	$\frac{4}{35}$	(15) ⑱	1.200
(16) ⑲	$50x^4 - 60x^3 + 24x^2 - 24x$	(17) ㉑	$\frac{35\sqrt{106}}{53}$	(18) ㉒	$\frac{1}{4}$
(19) ㉓	$y = 15x - 16$	(20) ㉔	$y = 3x + 8$	(21) ㉕	$\frac{1}{17}$
(22) ㉖	$\frac{13}{68}$	(23) ㉗	$\frac{1}{4}$	(24) ㉘	$\frac{1}{4}$

●2月10日 実施

I

(1) ①	$\frac{17-i}{10}$	(2) ②	$8a^3+36a^2b+54ab^2+27b^3$	(3) ③	$(2a-3b)(a+5b)$
(4) ④	$\frac{\sqrt{2}}{2}$	(5) ⑤	$\frac{\sqrt{3}}{2}$	(6) ⑥	$\frac{\sqrt{6}-\sqrt{2}}{4}$
(7) ⑦	$2+\sqrt{3}$	(8) ⑧	$2 < x \leq 4$	(9) ⑨	$y = 2x^2 - 12x + 4$ (または $y = 2(x-3)^2 - 14$)
(10) ⑩	1428	(11) ⑪	1111	(12) ⑫	9842
(13) ⑬	$(5, -3)$	(14) ⑭	5	(15) ⑮	$y = -\frac{3}{4}x + 7$
(16) ⑯	2	(17) ⑰	-1	(18) ⑱	$x < -1, 2 < x$
(19) ⑲	$3x^2+6x-105$	(20) ㉑	$5, -7$	(21) ㉒	4
(22) ㉓	1140	(23) ㉔	$\frac{1}{57}$	(24) ㉕	$\frac{4}{19}$