# 慶應義塾大学

## 環境情報学部 (2月18日実施)

# 数学

数学 Ⅰ

| (1) – (4) | (5) – (8) | (9) – (20) |
|---|---|---|
| $AB = \dfrac{\sqrt{7}}{3}BC$ | $AC = \dfrac{1}{3}BC$ | $BC = \dfrac{18 + 8\sqrt{3} + 2\sqrt{21}}{3}$ |

数学 Ⅱ

| (21)(22) | (23)(24) | (25) – (29) | (30)(31) | (32)(33) | (34) – (37) |
|---|---|---|---|---|---|
| 10 | 40 | 10200 | 13 | 12 | 3744 |

数学 Ⅲ

| (38)(39) | (40) – (43) | (44)(45) | (46) – (49) |
|---|---|---|---|
| 2 | $\dfrac{3}{4}$ | 4 | $\dfrac{3}{32}$ |

| (50)(51) | (52) – (55) | (56)(57) | (58) – (63) |
|---|---|---|---|
| 3 | $\dfrac{5}{9}$ | 6 | $\dfrac{5}{324}$ |

数学 IV

| (64) | (65)(66) | (67)(68) | (69)(70) | (71)(72) | (73)(74)(75) |
|---|---|---|---|---|---|
| 3 | 3 | 5 | 8 | 13 | 610 |

| (76) | (77)(78) | (79)(80) | (81)(82) | (83)(84) | (85)(86)(87) |
|---|---|---|---|---|---|
| 2 | 1 | 1 | 2 | 4 | 169 |

数学 V

| (88)(89) | (90) – (95) | (96) – (101) | (102) – (107) |
|---|---|---|---|
| $\sqrt{2}$ | $-\dfrac{1}{2}a^4 + a^2$ | $-2 + 2\sqrt{2}$ | $b^2\sqrt{-b^2 - 4b + 4}$ |

| (108) – (111) | (112) – (118) |
|---|---|
| $-1 + \sqrt{3}$ | $-10 + 6\sqrt{3}$ |

数学 VI

| (119)(120) | (121) – (124) | (125) – (128) |
|---|---|---|
| 30 | $45\sqrt{3}$ | $(x, y) = (45, 54)$ |

| (129)(130) | (131)(132) | (133) – (136) |
|---|---|---|
| 20 | 60 | $(x, y) = (60, 33)$ |