


## CUET Mathematics Answer Key 2024 (Set B)

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| Question No. | Answer Key   |
|--------------|--|
| 1            | (3) skew symmetric matrix                          |
| 2            | (2) 64   |
| 3            | (2) $x = 2, y = 1$                                 |
| 4            | (3) -2   |
| 5            | (2) $1/3$  |
| 6            | (4) (A) - (IV), (B) - (III), (C) - (I), (D) - (II) |
| 7            | (3) 50   |
| 8            | (4) 16 sq. units                                   |
| 9            | (4) $1/18$   |
| 10           | (2) $a = 2b$                                       |
| 11           | (1) 0  |
| 12           | (1) $(\pi/n) \log_e   (x^n - 1)/x^n   + C$         |
| 13           | (4) $1/(a + b)$                                    |
| 14           | (4) $5^x / (\log_e 5)^2$                           |
| 15           | (2) 2  |
| 16           | (2) An equivalence relation                        |
| 17           | (4) $5/7$  |

|    |   |
|----|---|
| 18 | (1) $\pi/3$   |
| 19 | (1) 3   |
| 20 | (2) There is one positive and one negative real value of x satisfying the above equation. |
| 21 | (3) 45  |
| 22 | (2) $\log_{e^4} - \log_{e^3}$   |
| 23 | (4) $180^\circ$   |
| 24 | (4) (A) - (II), (B) - (I), (C) - (III), (D) - (IV)  |
| 25 | (2) $6.6\pi$  |
| 26 | (1) $56\sqrt{3ab}$  |
| 27 | (4) A   |
| 28 | (2) (A) - (I), (B) - (IV), (C) - (III), (D) - (II)  |
| 29 | (4) (A), (C), and (D) only  |
| 30 | (1) 0   |
| 31 | (2) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)  |
| 32 | (2) (A) and (D) only  |
| 33 | (1) (A), (B), and (D) only  |
| 34 | (3) Region C  |
| 35 | (4) $16/3$ sq. units  |
| 36 | (4) $e^x\sqrt{x} + C$   |

|    |   |
|----|---|
| 37 | (4) $-2/\pi$  |
| 38 | (2) $[(-2 \ 4 \ 2), (4 \ 8 \ -4), (-1 \ 2 \ 1)]$  |
| 39 | (4) (B), (C), and (D) only  |
| 40 | (1) (A), (B), and (D) only  |
| 41 | (1) $2/3, -1/3, 2/3$  |
| 42 | (2) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)  |
| 43 | (4) $\sin^2(a + y) / \sin a$  |
| 44 | (4) $(-1/\sqrt{6})i + (2/\sqrt{6})j - (1/\sqrt{6})k$  |
| 45 | (3) $(\sqrt{328}) / 7$  |
| 46 | (3) odd and is strictly increasing in $(-\infty, \infty)$                                   |
| 47 | (1) (A) and (C) only  |
| 48 | (3) $2/7$   |
| 49 | (3) 2, 3, -1  |
| 50 | (3)<br> |