

代幾 I 計算演習 [問題] (2008/07/03)

問. 次の点と平面の間の距離を求めなさい

- | | | |
|--|---|--|
| Q.1
$(0, -1, 1), x + 5y + 5z = -4$ | Q.10
$(5, -1, 4), 5x - 5y + 2z = -4$ | Q.19
$(3, 2, 3), 4x - y + 2z = 2$ |
| Q.2
$(3, 3, 3), x + 2y + 4z = 2$ | Q.11
$(4, -3, -5), 4x - 2y - z = 5$ | Q.20
$(1, 4, 3), 5y + z = 0$ |
| Q.3
$(1, 3, 0), 4x + 5y - z = -2$ | Q.12
$(-1, -4, 5), x + 4y + 2z = -2$ | Q.21
$(-4, 4, 2), 3x + 4y - z = 1$ |
| Q.4
$(-1, 0, -1), 3x + 3y - 2z = 4$ | Q.13
$(2, -4, -5), y - z = -2$ | Q.22
$(3, 0, -4), 5x + 3z = 2$ |
| Q.5
$(-5, 3, 0), x + 4y - 5z = 1$ | Q.14
$(-2, 0, 3), y + 4z = -5$ | Q.23
$(-1, -3, -1), x + 5y + 5z = 5$ |
| Q.6
$(5, -2, 1), 3x - y = 2$ | Q.15
$(-1, -3, 1), 2x - 3y - z = 4$ | Q.24
$(5, -4, 1), 3x + 2y + 2z = -4$ |
| Q.7
$(4, -3, 5), 4x + 4y - 5z = -4$ | Q.16
$(2, 4, -3), 5y + z = 1$ | Q.25
$(5, -4, -3), 5x - 5y - 3z = 2$ |
| Q.8
$(-1, 4, -3), 3x - 3y - z = -4$ | Q.17
$(-4, 4, 3), 4y - z = 1$ | Q.26
$(3, -2, -4), x + y - z = 0$ |
| Q.9
$(-1, 4, -1), x + 3y + 5z = 3$ | Q.18
$(1, 4, 0), x - 2y = 2$ | Q.27
$(3, -2, -5), 4x - 2y + 4z = -3$ |

代幾 I 計算演習 [解答] (2008/07/03)

A.1

$$\frac{4\sqrt{51}}{51}$$

A.2

$$\frac{19\sqrt{21}}{21}$$

A.3

$$\frac{\sqrt{42}}{2}$$

A.4

$$\frac{5\sqrt{22}}{22}$$

A.5

$$\frac{\sqrt{42}}{7}$$

A.6

$$\frac{3\sqrt{10}}{2}$$

A.7

$$\frac{17\sqrt{57}}{57}$$

A.8

$$\frac{8\sqrt{19}}{19}$$

A.9

$$\frac{3\sqrt{35}}{35}$$

A.10

$$\frac{7\sqrt{6}}{3}$$

A.11

$$\frac{22\sqrt{21}}{21}$$

A.12

$$\frac{5\sqrt{21}}{21}$$

A.13

$$\frac{3\sqrt{2}}{2}$$

A.14

$$\sqrt{17}$$

A.15

$$\frac{\sqrt{14}}{7}$$

A.16

$$\frac{8\sqrt{26}}{13}$$

A.17

$$\frac{12\sqrt{17}}{17}$$

A.18

$$\frac{9\sqrt{5}}{5}$$

A.19

$$\frac{2\sqrt{21}}{3}$$

A.20

$$\frac{23\sqrt{26}}{26}$$

A.21

$$\frac{\sqrt{26}}{26}$$

A.22

$$\frac{\sqrt{34}}{34}$$

A.23

$$\frac{26\sqrt{51}}{51}$$

A.24

$$\frac{13\sqrt{17}}{17}$$

A.25

$$\frac{52\sqrt{59}}{59}$$

A.26

$$\frac{5\sqrt{3}}{3}$$

A.27

$$\frac{1}{6}$$