

# 代数学幾何学 (A/B) 計算演習 [問題] (2009/05/07)

問. 次の点と直線との距離を求めなさい

Q.1

$$(0, 4), \quad 5x + y = 5$$

Q.10

$$(-1, -4), \quad 4x + 5y = -4$$

Q.2

$$(-5, 3), \quad 2x - 2y = -5$$

Q.11

$$(-5, -5), \quad 4x = 5$$

Q.3

$$(-4, 2), \quad x - y = 1$$

Q.12

$$(5, 3), \quad x - y = 1$$

Q.4

$$(2, -1), \quad 5y = 2$$

Q.13

$$(3, 5), \quad 2x + 5y = -3$$

Q.5

$$(3, 4), \quad x = -1$$

Q.14

$$(3, 3), \quad 3x - 5y = 0$$

Q.6

$$(-1, 4), \quad x - 4y = -2$$

Q.15

$$(0, -4), \quad x + 2y = -1$$

Q.7

$$(4, -3), \quad 4x + y = -3$$

Q.16

$$(4, -5), \quad 3x + y = 5$$

Q.8

$$(2, 0), \quad 4x + 5y = 0$$

Q.17

$$(2, 2), \quad x + 3y = 3$$

Q.9

$$(1, 4), \quad 3x + 4y = 3$$

Q.18

$$(5, -4), \quad x - 2y = 2$$

代数学幾何学 (A/B) 計算演習 [解答] (2009/05/07)

A.1	$\frac{\sqrt{26}}{26}$	A.10	$\frac{20\sqrt{41}}{41}$
A.2	$\frac{11\sqrt{2}}{4}$	A.11	$\frac{25}{4}$
A.3	$\frac{7\sqrt{2}}{2}$	A.12	$\frac{\sqrt{2}}{2}$
A.4	$\frac{7}{5}$	A.13	$\frac{34\sqrt{29}}{29}$
A.5	4	A.14	$\frac{3\sqrt{34}}{17}$
A.6	$\frac{15\sqrt{17}}{17}$	A.15	$\frac{7\sqrt{5}}{5}$
A.7	$\frac{16\sqrt{17}}{17}$	A.16	$\frac{\sqrt{10}}{5}$
A.8	$\frac{8\sqrt{41}}{41}$	A.17	$\frac{\sqrt{10}}{2}$
A.9	$\frac{16}{5}$	A.18	$\frac{11\sqrt{5}}{5}$