代幾 I 計算演習 [問題] (2008/04/24)

問. 次の点と直線の間の距離を求めなさい

Q.1

$(-1, 0)$, $2x = -5$

Q.2

$(5, 5)$, $y = 5$

Q.3

$(-1, -5)$, $y = -1$

Q.4

$(3, 0)$, $5x - 4y = -2$

Q.5

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

Q.6

$(-3, -1)$, $3x - 4y = 4$

Q.7

$(-3, -5)$, $5x + 3y = -3$

Q.8

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

Q.9

$(-3, 4)$, $2y = -1$

Q.10

$(2, 3)$, $2x + 5y = 5$

Q.11

$(1, 0)$, $2x + y = 0$

Q.12

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

Q.13

$(3, -2)$, $2x - 3y = 3$

Q.14

$(4, 2)$, $3y = -2$

Q.15

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

Q.16

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

Q.17

$(0, -5)$, $2x + y = -1$

Q.18

$(-1, 0)$, $5x + 3y = 0$

Q.19

$(5, -1)$, $x + 5y = -3$

Q.20

$(0, 1)$, $2x - 2y = -3$

代幾 I 計算演習 [解答] (2008/04/24)

A.1

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

A.2

$$0$$

A.3

$$4$$

A.4

$$\frac{17\sqrt{41}}{41}$$

A.5

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

A.6

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

A.7

$$\frac{27\sqrt{34}}{34}$$

A.8

$$\frac{24\sqrt{29}}{29}$$

A.9

$$\frac{9}{2}$$

A.10

$$\frac{14\sqrt{29}}{29}$$

A.11

$$\frac{2\sqrt{5}}{5}$$

A.12

$$\frac{\sqrt{34}}{17}$$

A.13

$$\frac{9\sqrt{13}}{13}$$

A.14

$$\frac{8}{3}$$

A.15

$$\frac{29\sqrt{26}}{26}$$

A.16

$$\frac{11\sqrt{10}}{5}$$

A.17

$$\frac{4\sqrt{5}}{5}$$

A.18

$$\frac{5\sqrt{34}}{34}$$

A.19

$$\frac{3\sqrt{26}}{26}$$

A.20

$$\frac{\sqrt{2}}{4}$$