

□

H27

$$(11) \quad -7 + 8 = \frac{1}{2}$$

$$= -7 + 8 \times 2$$

$$= -7 + 16 = 9$$

$$(12) \quad 9a + 4b - (a - 3b)$$

$$= 9a + 4b - a + 3b$$

$$= 8a + 7b$$

$$(13) \quad (\sqrt{6} + 5)(\sqrt{6} - 2)$$

$$= 6 + 3\sqrt{6} - 10$$

$$= -4 + 3\sqrt{6}$$

$$(14) \quad x - 7 = 9(x + 1)$$

$$x - 7 = 9x + 9$$

$$x - 9x = 16$$

$$-8x = 16$$

$$x = -2$$

(15)

$$\begin{cases} 3x + 4y = 8 \\ x - 2y = 6 \end{cases}$$

$$3x + 4y = 8$$

$$2x - 4y = 12$$

$$\hline 5x = 20$$

$$x = 4$$

$$4 - 2y = 6$$

$$-2y = 2$$

$$y = -1$$

$$\begin{cases} x = 4 \\ y = -1 \end{cases}$$

$$\cancel{x}(-16 = 8x)$$

$$8x = -16$$

$$x = -2$$

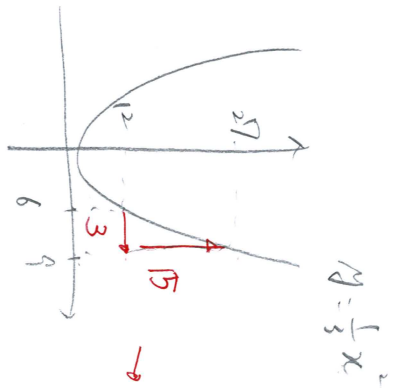
$$(16) \quad x^2 + 5x - 3 = 0$$

$$x = \frac{-5 \pm \sqrt{37}}{2}$$

"

$$x = \frac{-5 \pm \sqrt{25 - 4 \cdot (-3)}}{2}$$

17)



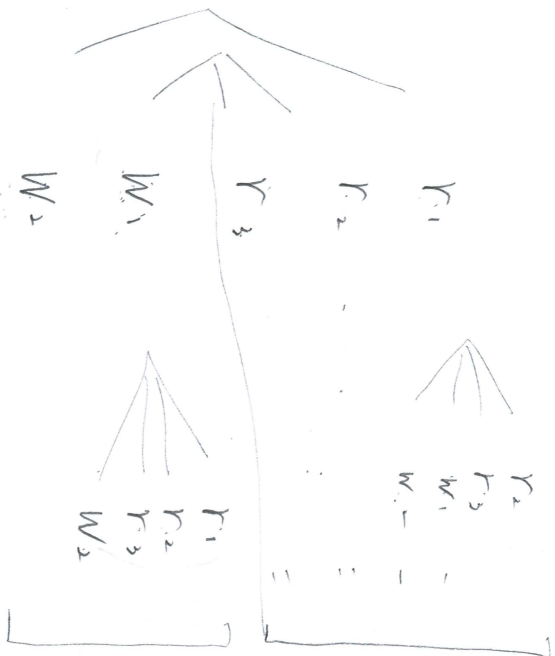
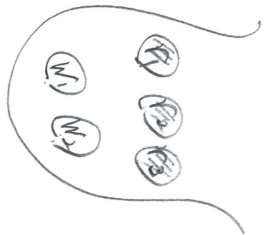
$$y = \frac{1}{3}x^2$$

$$\frac{15}{3} = 5$$

12月

22日

18)



6.

14

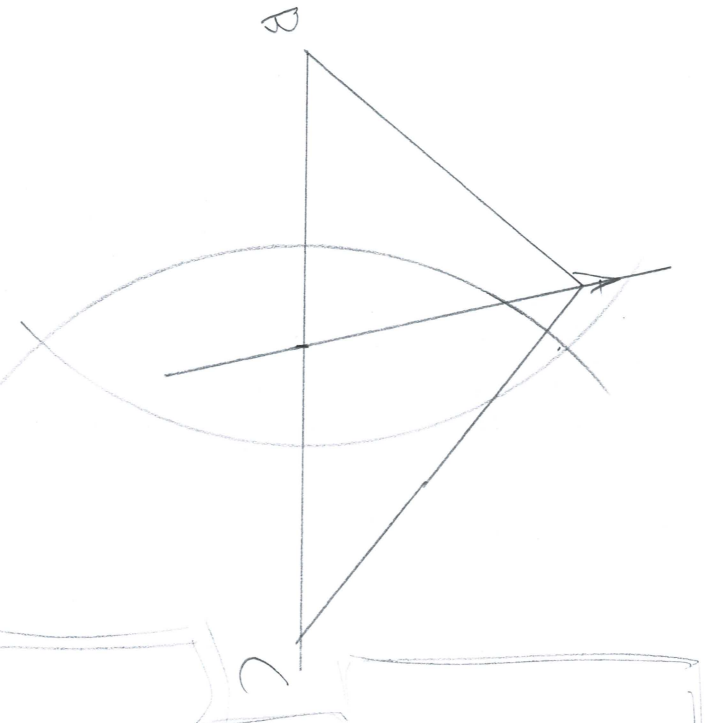
8

6

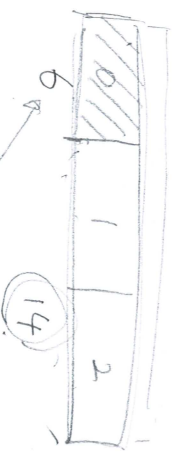
$$\text{確率} = \frac{\text{問かけのバグーン}}{\text{全部のバグーン}} = \frac{14}{5 \times 4 = 20}$$

$$\frac{14}{20} = \frac{7}{10}$$

19)



$$5 \times 4 = 20$$



$$3 \times 2 = 6$$

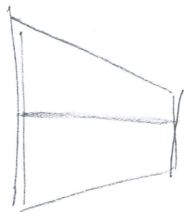
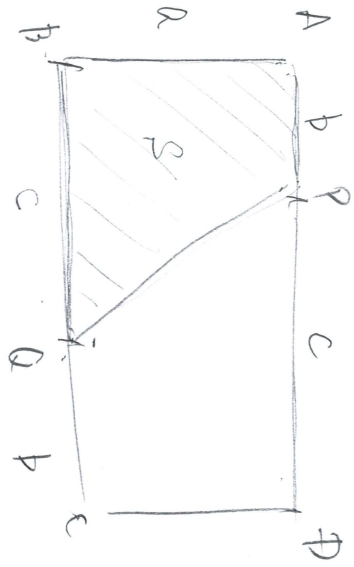
$$\frac{14}{20} = \frac{7}{10}$$

$$\frac{7}{10}$$

□

H₂D

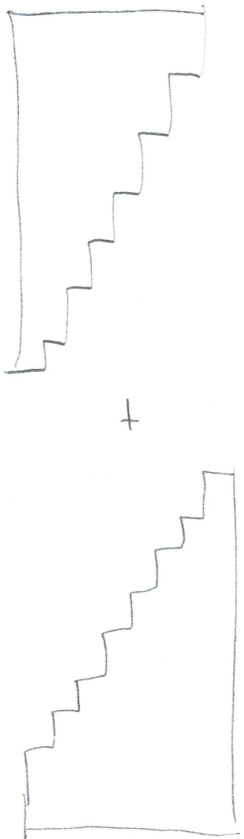
(1)



$$S = (b+c) \times a \times \frac{1}{2}$$

$$= \frac{1}{2} a (b+c)$$

(2)



下の図は長方形に切り取ると

縦の長さは n cm

横の長さは $n+3$ cm

よって長方形の面積は $n(n+3)$ cm²

求める面積 T cm² は長方形を半分にしたもの

$$T = \frac{1}{2} n(n+3)$$

3

(11) P (2, -2)

L: M = x - y

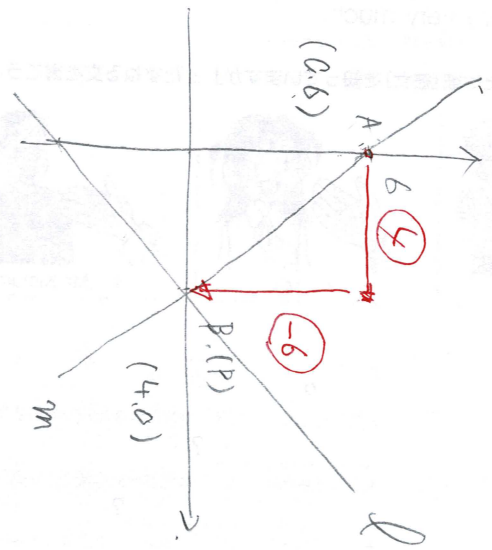
M = ax + b

傾斜 切片

-2 = x - y

x = 2

(12) 点 P = 5 B (4, 0)



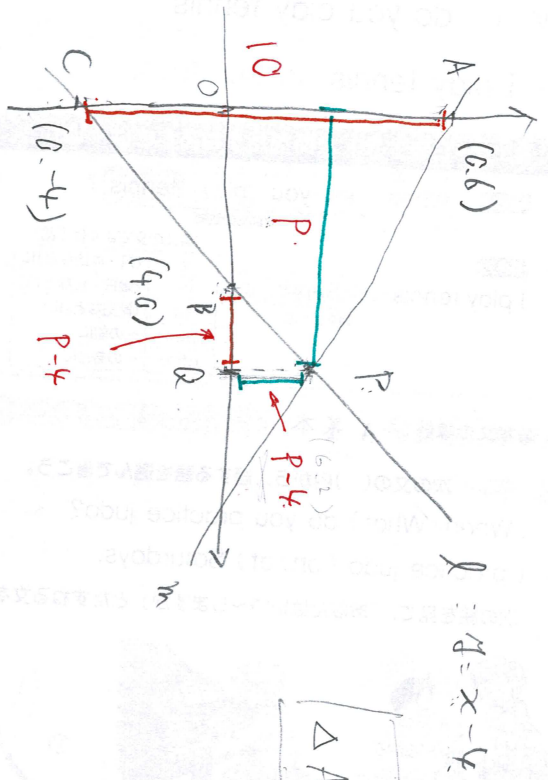
M = -3/2 x + 6

M = ax + b

傾斜 = $\frac{\text{yの直線の傾き}}{\text{xの直線の傾き}} = \frac{-6}{4} = -\frac{3}{2}$

(3)

→



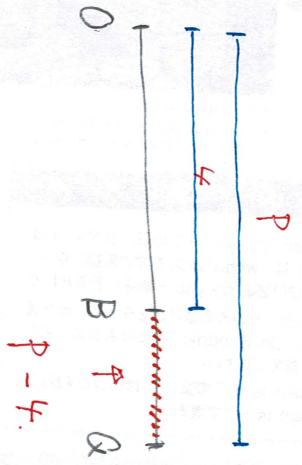
$$\Delta ACP = \Delta BQP \times 5$$

23. PA 2/3 1/3 ?

PA 2/3 1/3 P. 2/3

y = P - 4 5/1 PA 2/3 1/3 P - 4

$$P(P, P-4)$$



ΔACP

ΔBQP

$$\cancel{10} \times P \times \cancel{\frac{1}{2}} = (P-4) \times (P-4) \times \cancel{\frac{1}{2}} \times \cancel{5}$$

$$2P = (P-4) \times (P-4)$$

$$2P = P^2 - 8P + 16$$

$$P^2 - 10P + 16 = 0$$

$$(P-2)(P-8) = 0$$

$$P = \cancel{2} \cdot 8$$

$$P = 8$$

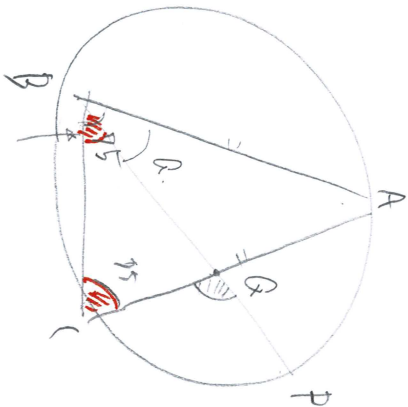
$$0 = P^2 - 8P - 2P + 16$$

$$P^2 - 10P + 16 = 0$$

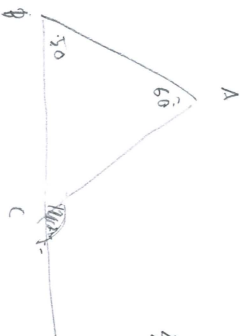
$$P - 4 = 8 - 4 = 4$$

4

(1)



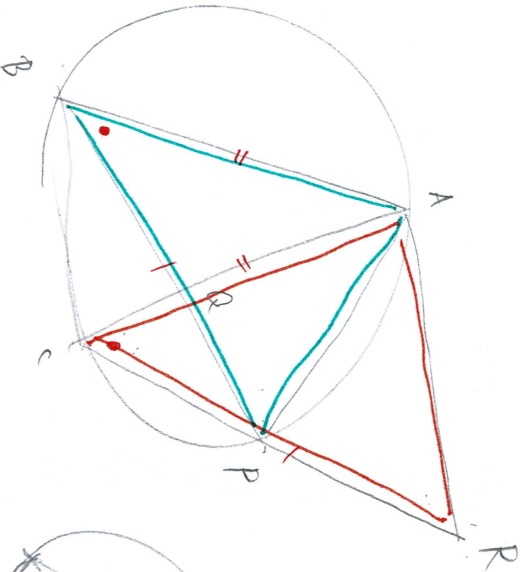
$75 - a$



外角

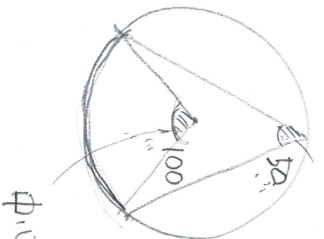
$(75 - a) + 75 = \underline{150 - a}$

(2)

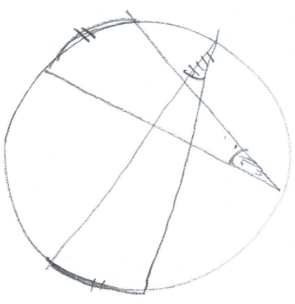
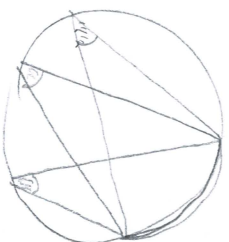


① $\triangle ABP \cong \triangle ACR$

円周角



中心角



$\triangle ABP \cong \triangle ACR$ 証明

仮定より

$BP = CR \dots ①$

\widehat{AC} は共通円周角より

$\angle ABP = \angle ACR \dots ②$

$\triangle ABC$ は $AB = AC$ の二等辺三角形より

$AB = AC \dots ③$

①, ②, ③より

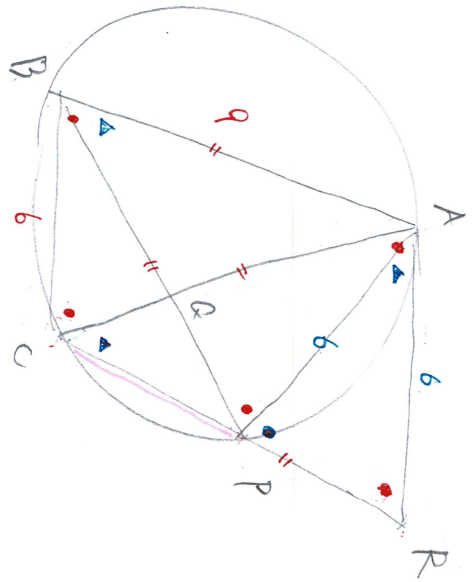
2組の辺と2組の角が

それぞれ等しい

$\triangle ABP \cong \triangle ACR$

(2)

(2)



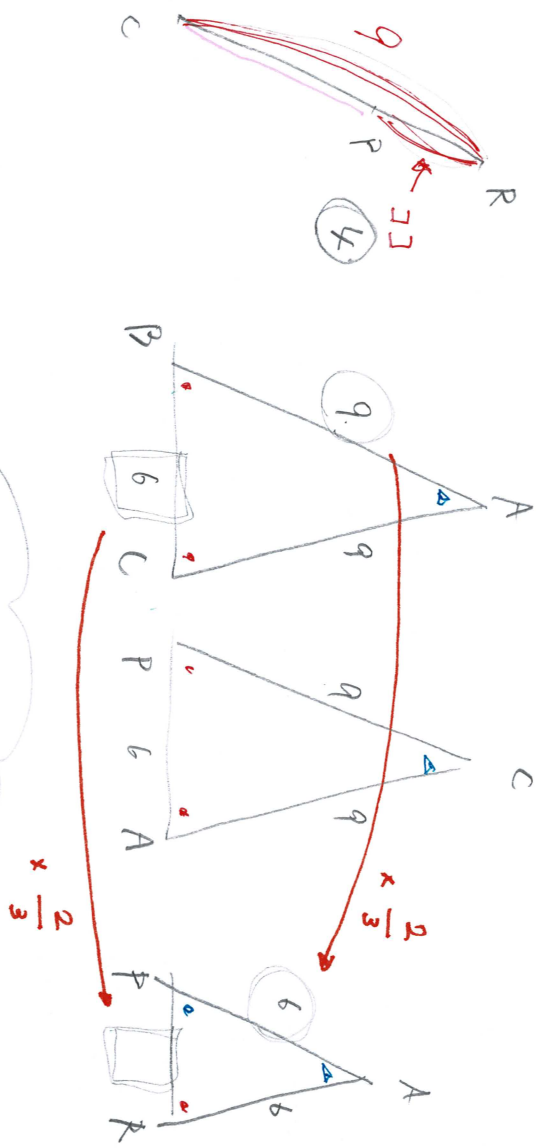
$$CP = ?$$

$$180 - 50 = 130$$

$$\Delta BAP = \triangle + \circ + \circ$$

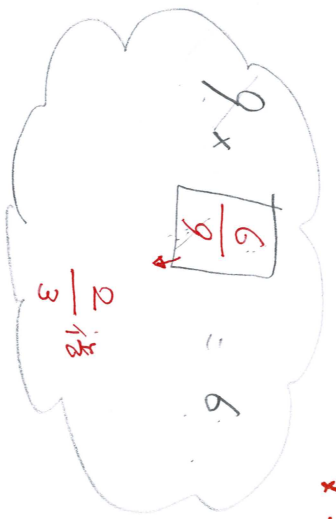
$$\Delta CAR = \triangle + \times + \times$$

130



$$9 \cdot \frac{2}{3} = 6$$

$$PR = 6 \cdot \frac{3}{2} = 9$$



$$5 \times \frac{3}{5} = 3$$

$$2 \times \frac{9}{2} = 9$$

$$4 \times \frac{24}{4} = 24$$