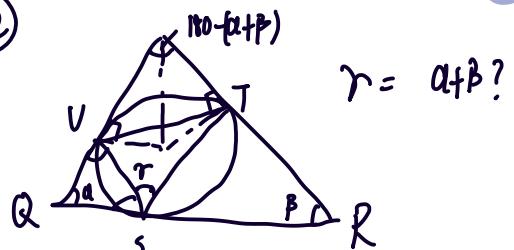


	20	21-25	15
16 X 11		✓	(4)
17 X 8		✓	(12)
18 X 8		✓	
19 X 8		✓	
20 X 7		✓	
21 X 8		✓	
22 X 9		✓	

(4)

$$\pi(2r)^2 - \pi r^2 = \frac{3\pi r^2}{4} = B$$

graphs
are not
in scale

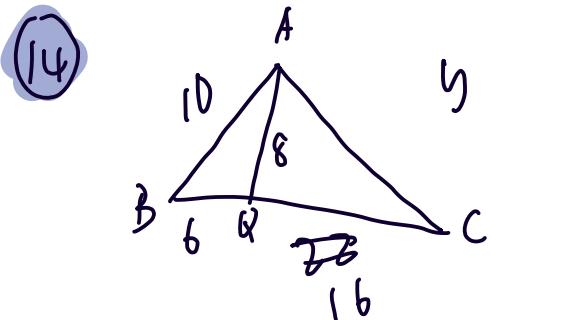


$$\frac{1}{2}(180 - \alpha) + \gamma + \frac{1}{2}(180 - \beta) = 180$$

$$90 - \frac{1}{2}\alpha + \gamma + 90 - \frac{1}{2}\beta = 180$$

$$-\frac{1}{2}\alpha - \frac{1}{2}\beta = -\gamma$$

$$\frac{1}{2}(\alpha + \beta) = \gamma$$



$$A = 88$$

$$\frac{1}{2} \times (22) = 88$$

$$x = 8$$

$$8^2 + BQ^2 = 10^2$$

$$= \sqrt{100 - 64}$$

$$(8 \times 1)^2 \quad (8 \times 2)^2$$

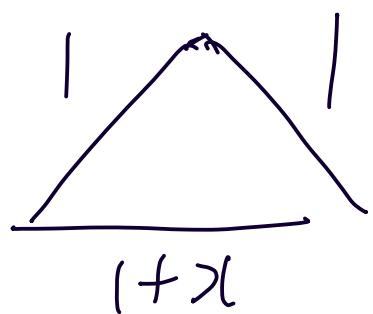
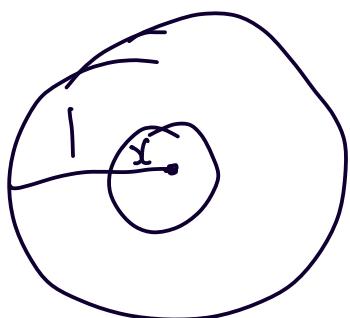
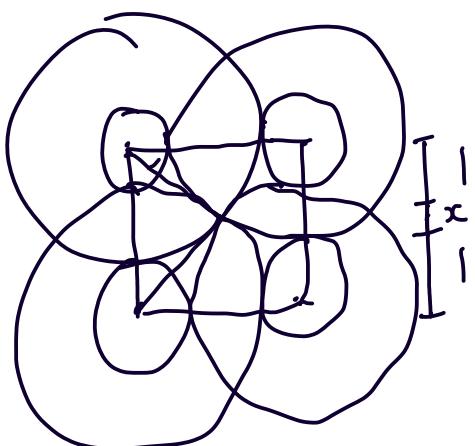
$$1 / \\ 8^2 + 16^2 = y^2$$

$$8^2 [1^2 + 2^2] = y^2$$

$$y = 8\sqrt{5}$$

$$BQ = \sqrt{36}$$

(17)



~~$$(1-x) + x + x$$~~

$$A = (1+x)^2$$

$$4\Delta = 4 \left(\frac{1}{2} (1)(1) \sin(90^\circ) \right)$$

$$= 2$$

$$2 = (1+x)^2$$

OV Pythagoras.

$$z = 1 + 2x + x^2$$

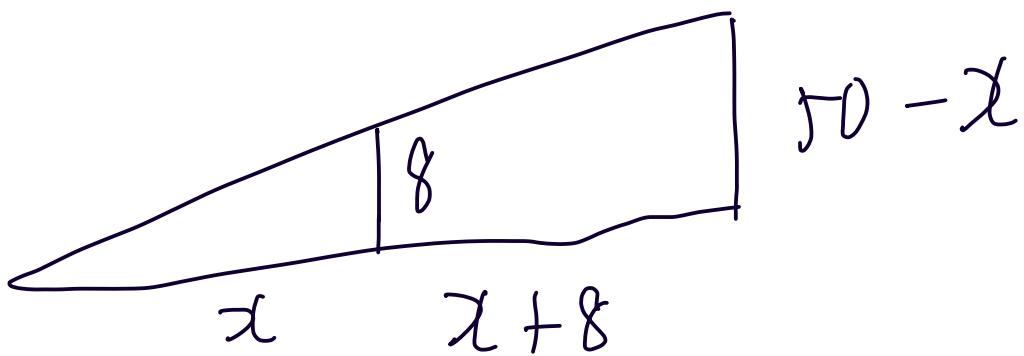
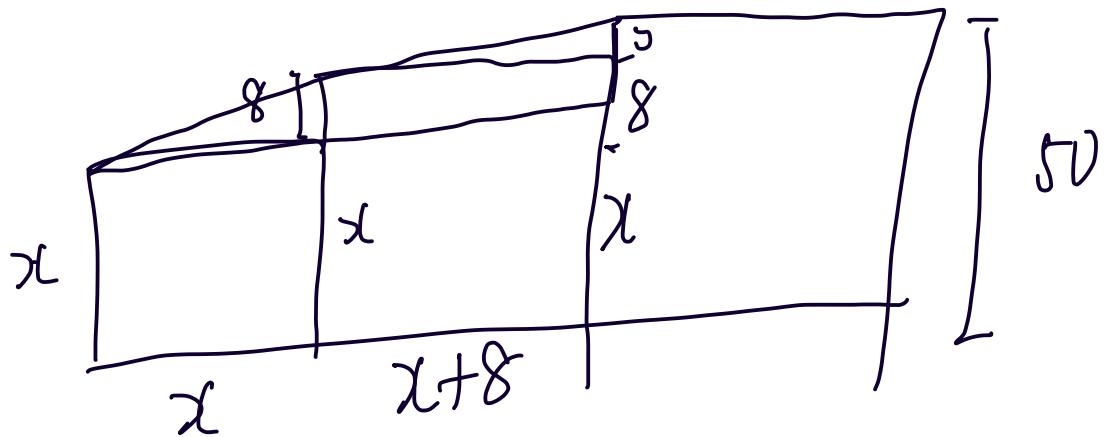
$$0 = x^2 + 2x - 1$$

$$\frac{-2 \pm \sqrt{4 - 4(1)(-1)}}{2}$$

$$= \frac{-2 + \sqrt{8}}{2}$$

$$= -1 + \sqrt{2}$$

(19)



$$\frac{8}{x} = \frac{50-x}{2x+8}$$

$$16x + 64 = 50x - x^2$$

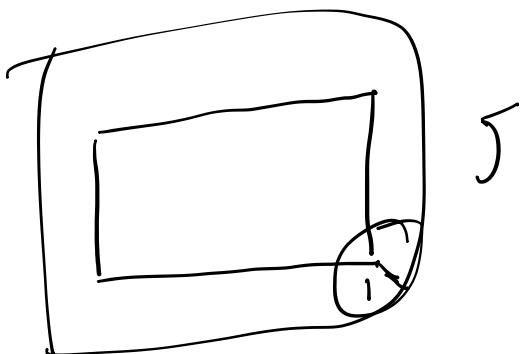
$$x^2 - 34x + 64 = 0$$

$$1 - 32$$

$$1 - 2$$

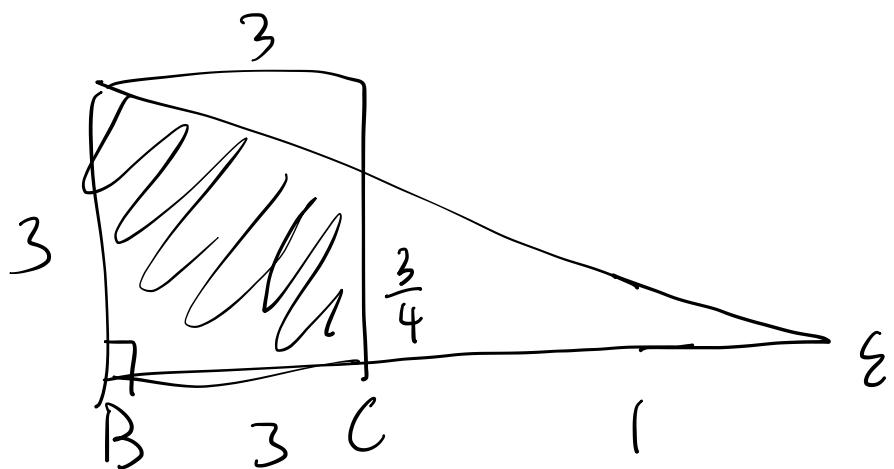
16

(3)



$$3(4) = 12 \Rightarrow B$$

(6)

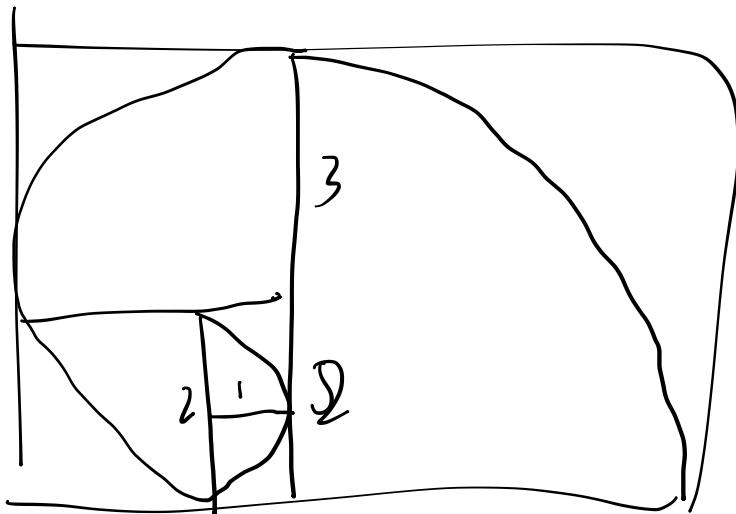


$$\begin{aligned} \frac{1}{2} \cdot 3 \left(\frac{3}{4} + 3 \right) &= \frac{1}{2} \left(\frac{9}{4} + 9 \right) \\ &= \frac{9}{8} + \frac{9}{2} \end{aligned}$$

$$= \frac{45}{8}$$

$$= 5 \frac{5}{8}$$

(13)



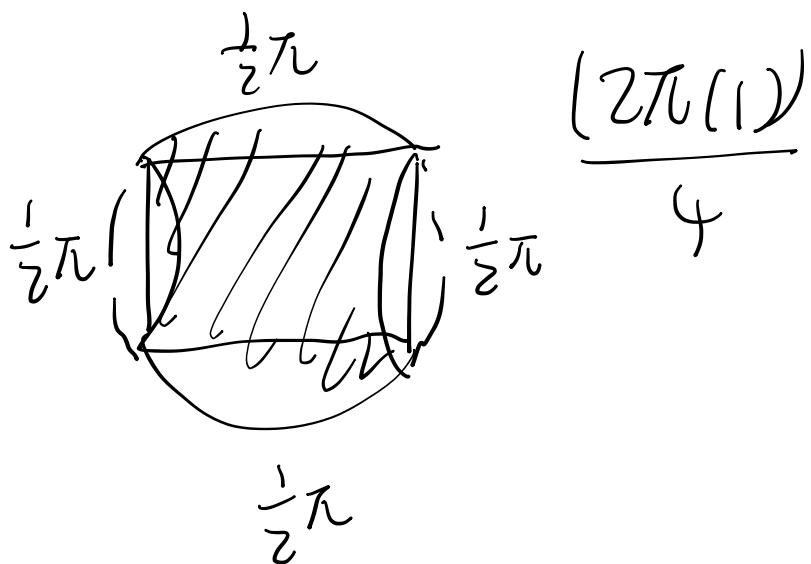
$$\frac{1}{2}(2\pi(1)) + \frac{1}{4}(2\pi(2)) +$$

$$\frac{1}{4}(2\pi(3)) + \frac{1}{4}(2\pi(5))$$

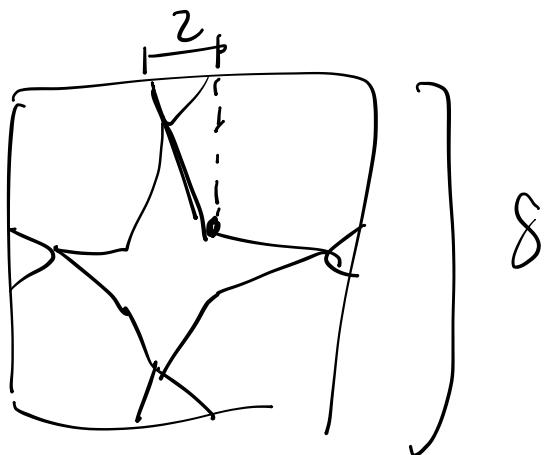
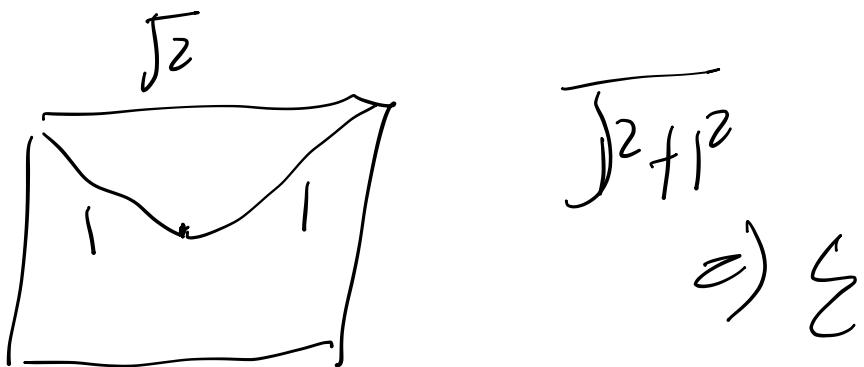
$$= \pi + \pi + \frac{3}{2}\pi + \frac{5}{2}\pi$$

$$= 6\pi$$

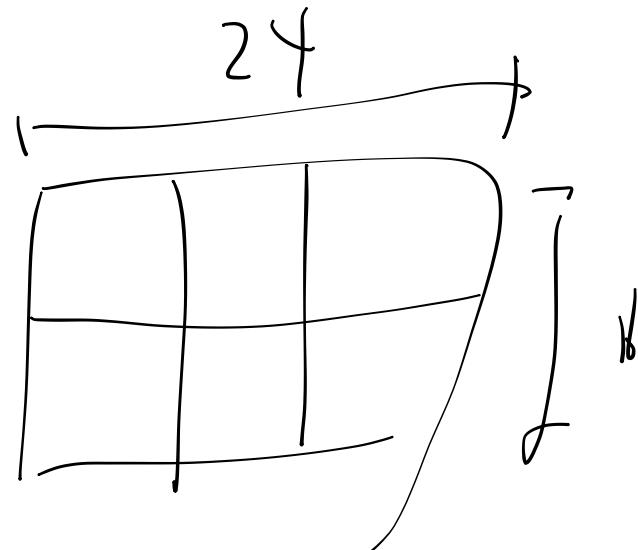
(18)



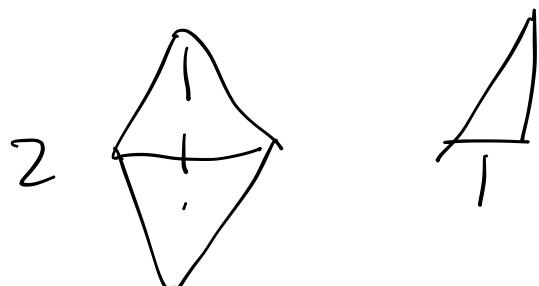
(20)

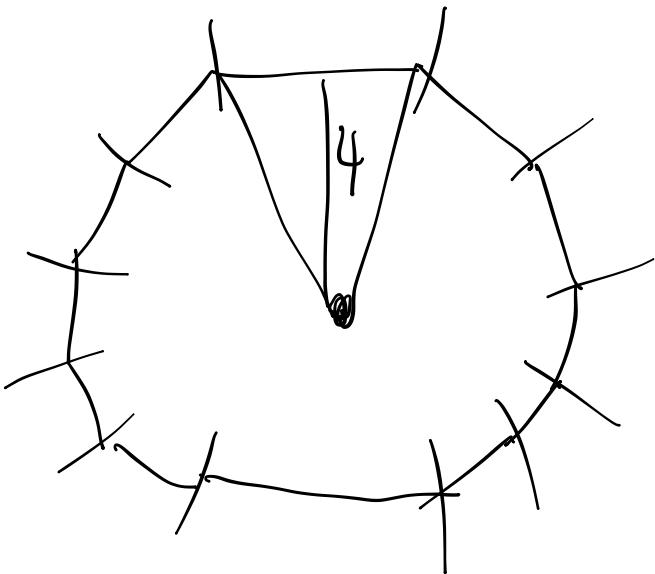


8

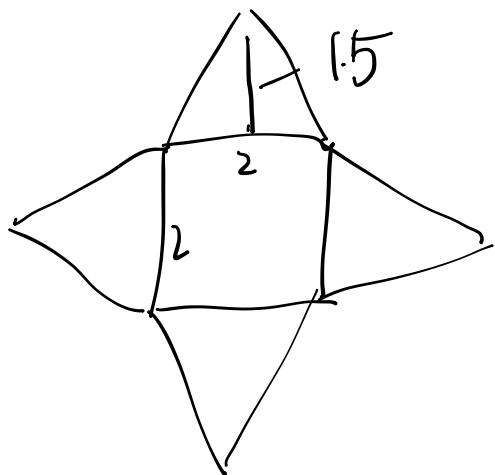


16





8 4



$$\cancel{2 \times 1.5} (4) = 4$$

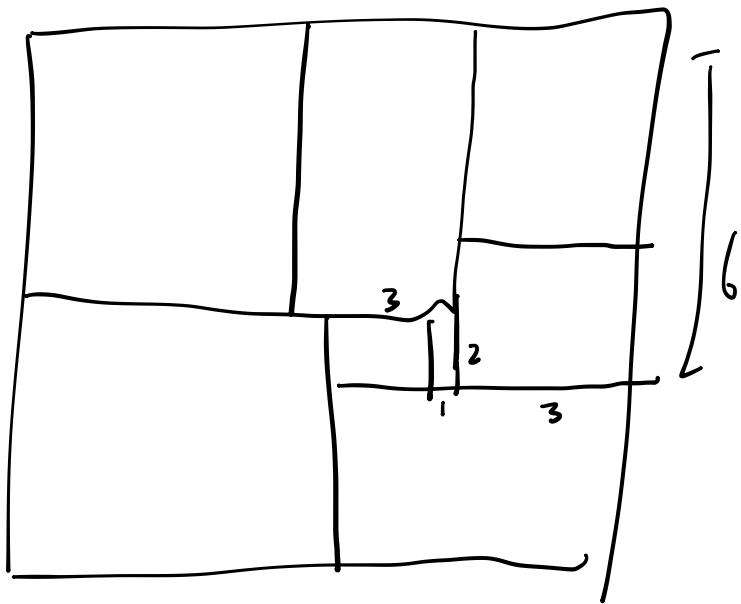
6 + 4

17

$$n(n+1) \quad k(k+1)$$

$$1(1+1) \quad 2$$

(9)



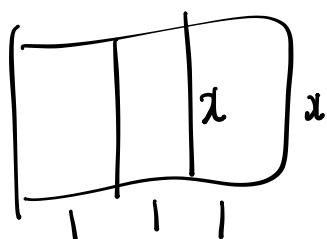
b
 12
 20
 30
 56
 72

$$(1 \times 2) + (2 \times 3) + (3 \times 4) + \dots$$

$$+ (8 \times 9) = 15 \times 16$$

$$\Rightarrow n=15$$

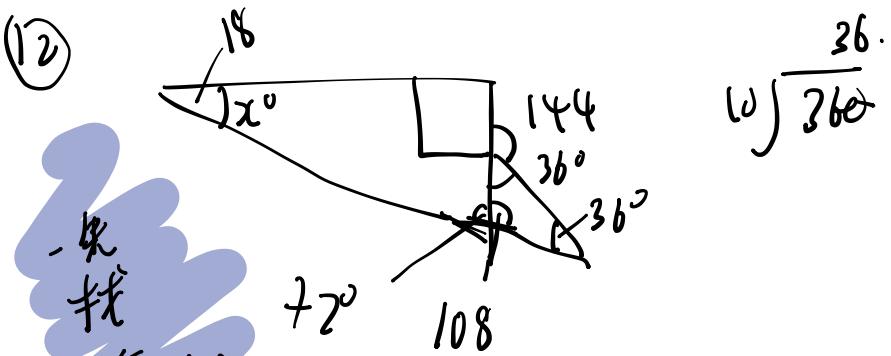
(10)



$$\frac{x}{1} = \frac{3}{x} \quad \frac{3}{\sqrt{3}} = \frac{\sqrt{3}}{1}$$

$$x^2 = 3 \quad \Rightarrow D$$

$$x = \pm \sqrt{3}$$

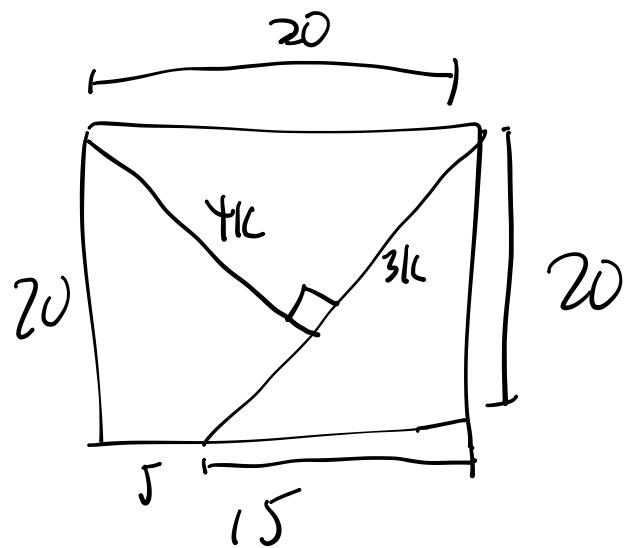


$$(12) \sqrt{360}$$

-先找
會的
再串連。

(15)

(16)



$$\frac{20}{15} = \frac{4}{3}$$

$$(4k)^2 + (3k)^2 = 20^2$$

$$16k^2 + 9k^2 = 400$$

$$k^2 = 16$$

$$k = \cancel{\pm 4}$$

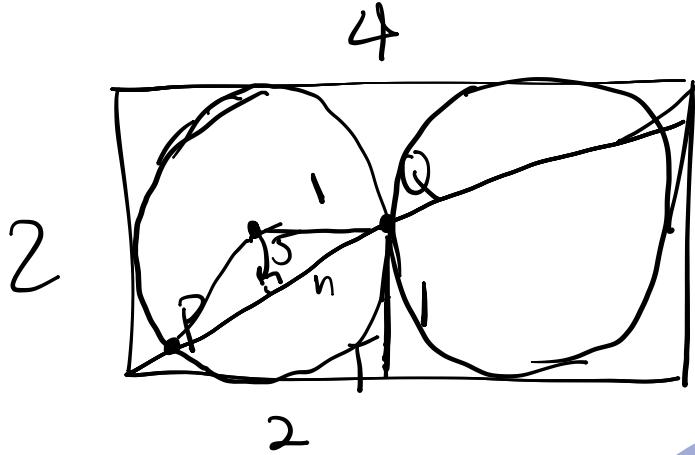
$$\Rightarrow 20^2 - \frac{1}{2}(20)(15) - \frac{1}{2}(16)(12)$$

$$= 400 - 150 - 96$$

$$\therefore 250 - 96 = 154$$

$\Rightarrow D$

(19)



• 切割法

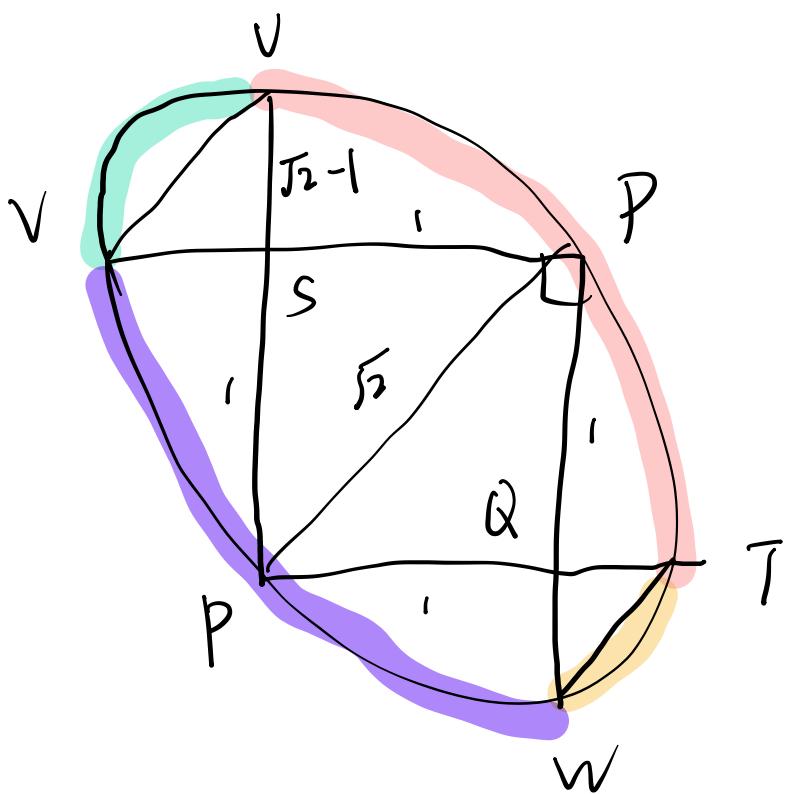
• 填補法

• Similar Δ

$$\frac{1}{\sqrt{2}} = \frac{n}{2}$$

$$\frac{1}{\sqrt{2}} =$$

(20)



看這題

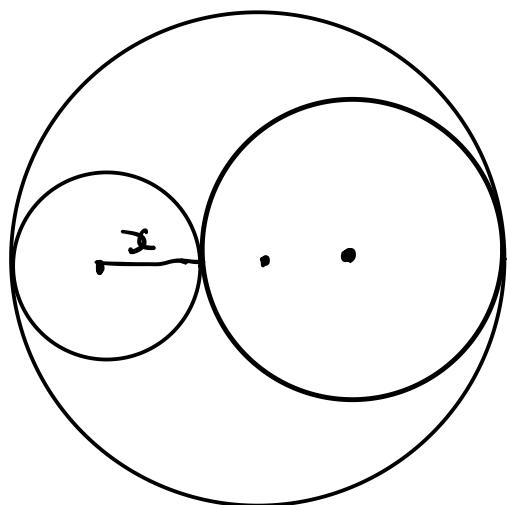
$$2\left(\frac{1}{4}2\pi(\sqrt{2})\right) + 2\left(\frac{1}{4}2\pi(\sqrt{2}-1)\right)$$

$$= \sqrt{2}\pi + \pi\sqrt{2} - \pi$$

$$= 2\sqrt{2}\pi - \pi \Rightarrow \beta$$

18

⑦

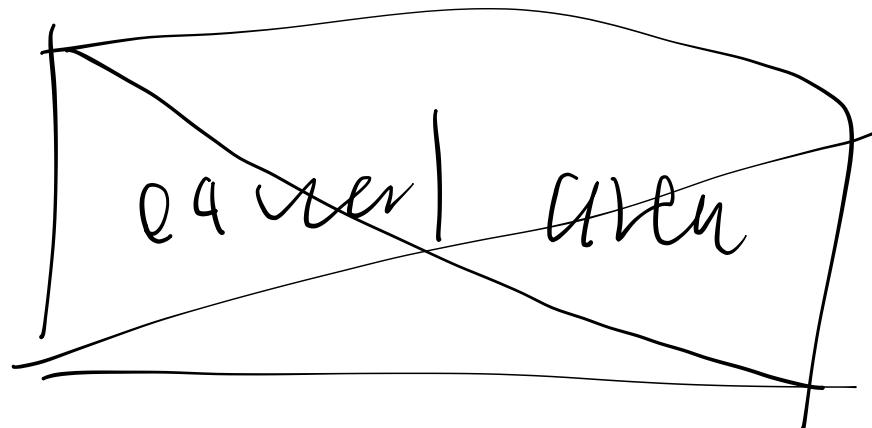


$$2\pi r + 2\pi(2r)$$

$$2\pi(3r)$$

$$= \frac{6\pi r}{6\pi r} \Rightarrow \alpha$$

(9)

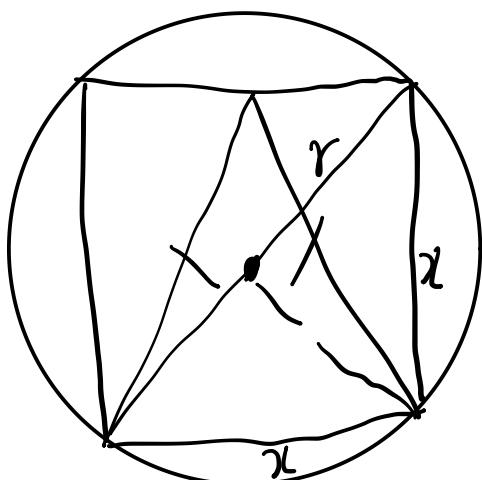
4 eq.
Area

$$\frac{4}{10} = \frac{2}{5} //$$

(10)

A.

(10)



$$2x^2 = r^2$$

$$x = \sqrt{\frac{r^2}{2}}$$

$$\frac{1}{2} \left(\frac{r\sqrt{2}}{2} \right)^2 = \frac{r\sqrt{2}}{2}$$

$$\pi r^2 - \left(\frac{r\sqrt{2}}{2} \right)^2$$

$$= \frac{1}{2} \left(\frac{2r^2}{4} \right)$$

$$\pi r^2 - \frac{r^2(2)}{4}$$

$$\approx \frac{1}{4} r^2$$

$$2\pi r^2 - \frac{1}{2} r^2$$

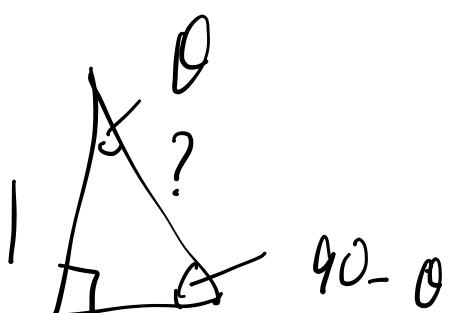
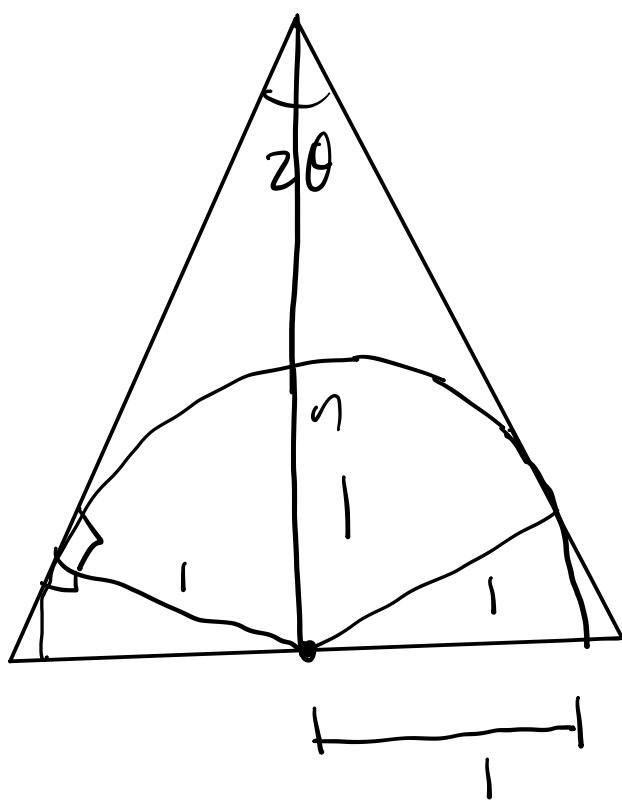
$$\frac{2r^2}{2}$$

$$4r(2\pi \cancel{r^2} - \cancel{r^2})$$

$$1$$

$$2(2\pi - 1) \Rightarrow D$$

(20)



~~sin~~

$$\frac{1}{?}$$

$$\cos \theta = ?$$

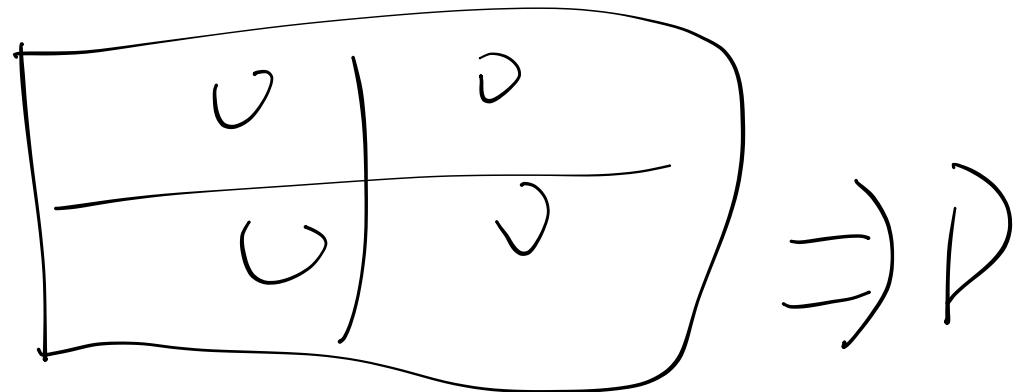
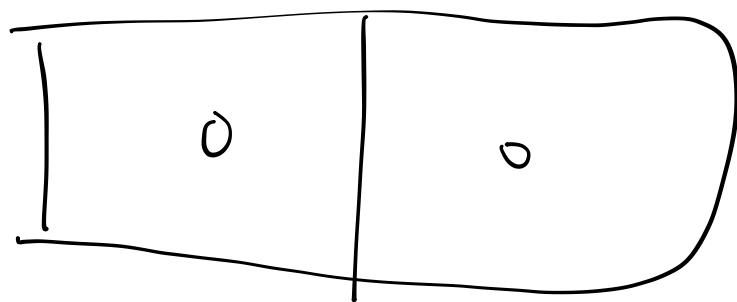
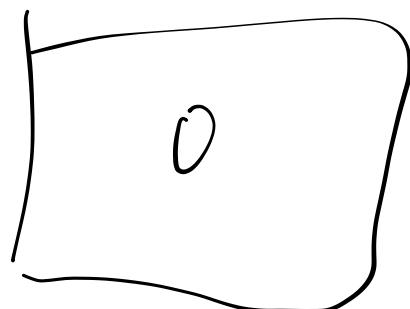
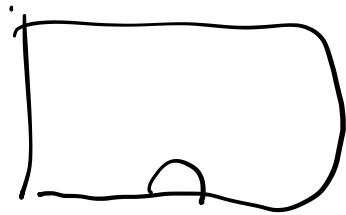
$$\frac{\sin \theta}{1} = \frac{\sin 90}{r}$$

$$? = \frac{1}{\cos \theta}$$

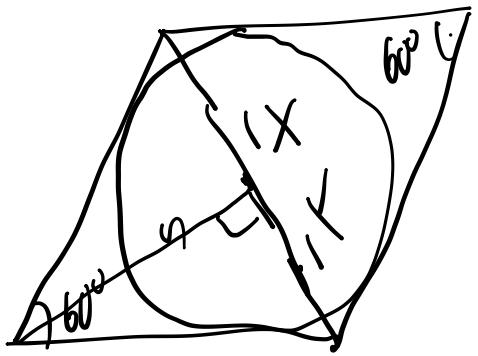
$$n = \frac{1}{\sin \theta}$$

$$\text{Area} = \frac{1}{2} \left(\frac{1}{\sin \theta} \right) \left(\frac{1}{\cos \theta} \right) \Rightarrow \epsilon$$

19
G



(2)



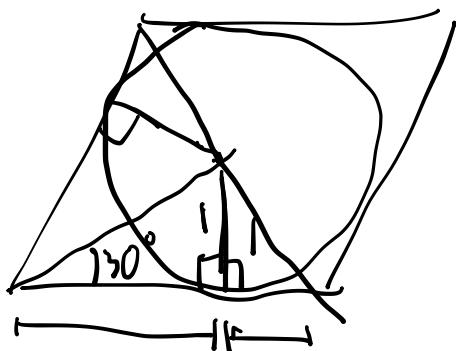
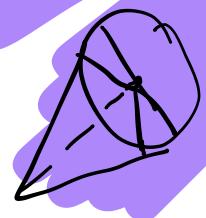
-
是
是

3 tangent

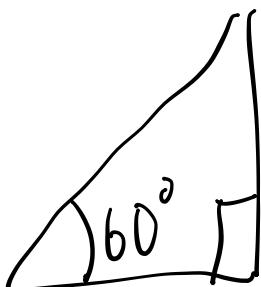
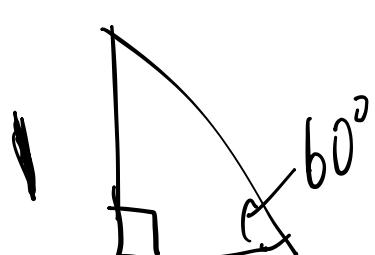
-
是
是

$$\tan 30^\circ = \frac{1}{n}$$

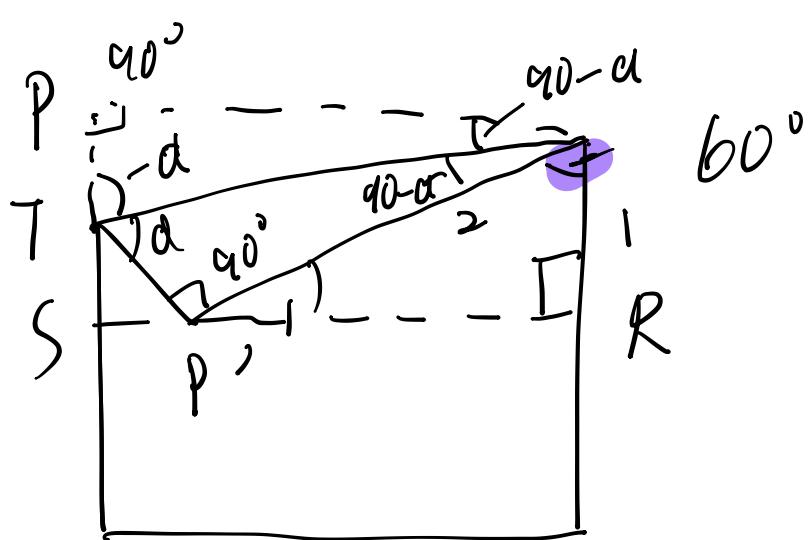
$$n = \frac{\sqrt{3}}{1}$$



$$\Rightarrow \frac{\sqrt{3}}{3} \cdot \frac{1}{2} \left(\frac{\sqrt{3}}{\sqrt{3}} \right) (2) (2) \\ 2\sqrt{3} \Rightarrow C$$



(18)



$$\cos 60^\circ = \frac{1}{2}$$

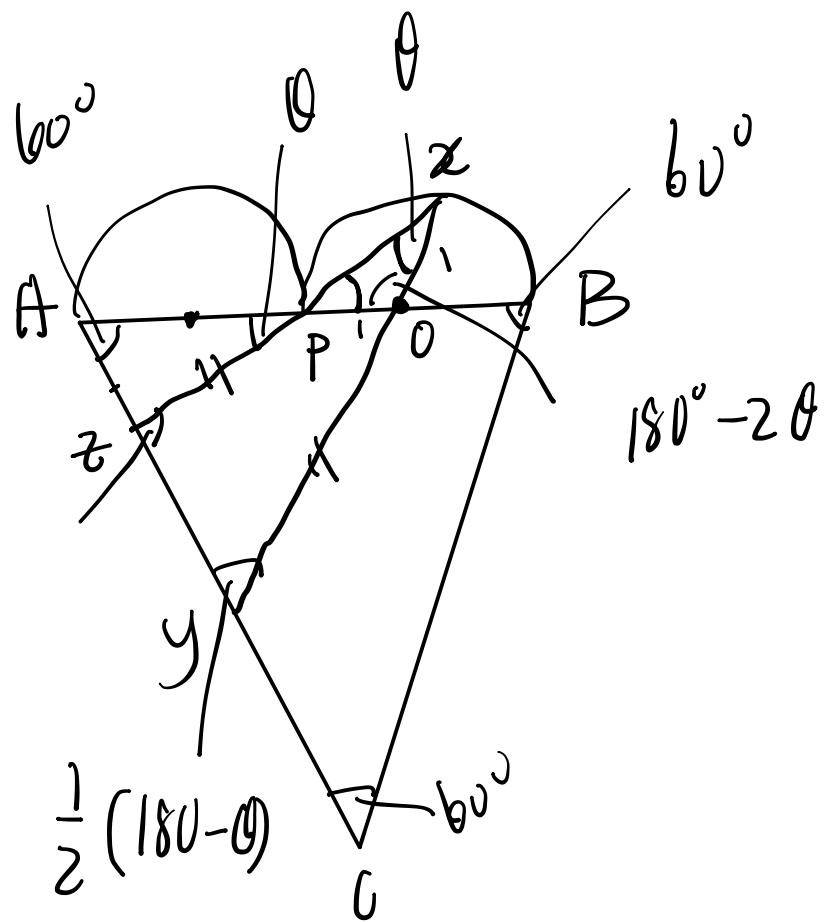
(19)

$$y = \pm \sqrt{\sin(x^2)}$$

 f^-

\Rightarrow no value.

(20)



$$90 - [90 - \frac{1}{2}\theta]$$

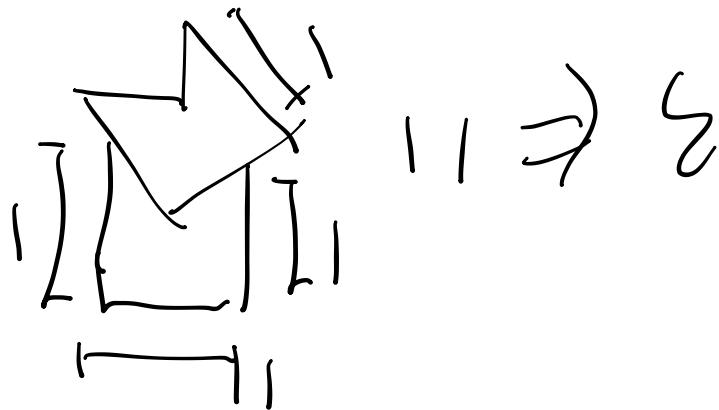
$$\theta = 90 + \frac{1}{2}\theta + 60^\circ + \theta$$

~~$\frac{1}{2}\theta = 72^\circ$~~

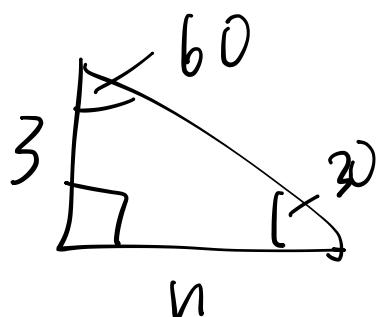
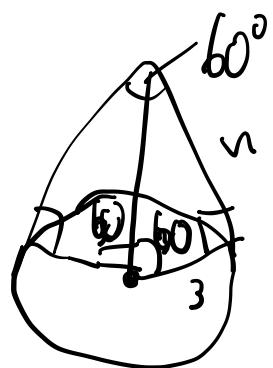
$$\theta = 20^\circ$$

20

(11)



(15)



$$\frac{\frac{360}{120}}{240}$$

$$\sin \tan 30 = \frac{3}{n}$$

$$n = \frac{9}{\sqrt{3}}$$

$$\frac{1}{2} \left(\frac{9\sqrt{3}}{3\sqrt{3}} \right) (3) \times 2 + \pi (3)^2 \left(\frac{2}{3} \right)$$

$$= 9\sqrt{3} + 6\pi$$

$$\frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} \frac{\frac{2}{3}}{\frac{\sqrt{3}}{3}}$$

⑯

$$y^2 - 2y = x^2 + 2x$$

A or C

$$y^2 - x^2 = 2x + 2y$$

$$(y-x)(y+x) = 2(x+y)$$

$$\cancel{y} = \cancel{2+x}$$

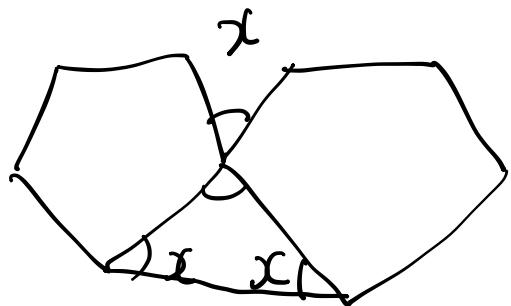
$$(y-x)(y+x) - 2(y+x) = 0$$

$$(y+x)(y-x-2) = 0$$

$$y = -x \Rightarrow \Sigma$$

$$y = x+2$$

2)



$$180 - 2x + x +$$

$$\begin{array}{r} 108 \\ 8 \sqrt{540} \\ \underline{-5} \\ 40 \end{array}$$

$$\frac{(5-2) \times 180}{5}$$

$$= \cancel{8}$$

$$180 - 2x + x + 108 + 108 = 360$$

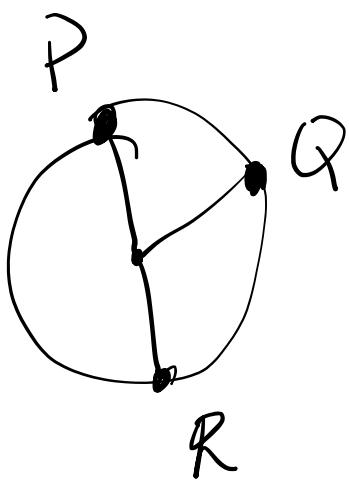
$$-x = -30$$

$$\begin{array}{r} 180 \\ -108 \\ \hline 72 \end{array}$$

- 108

$$36 - \frac{1}{2} r^2 \theta$$

6



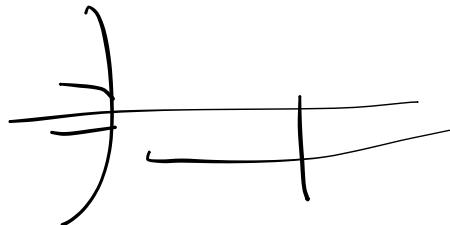
$$r\theta = l$$

$$\theta : \theta : \theta$$

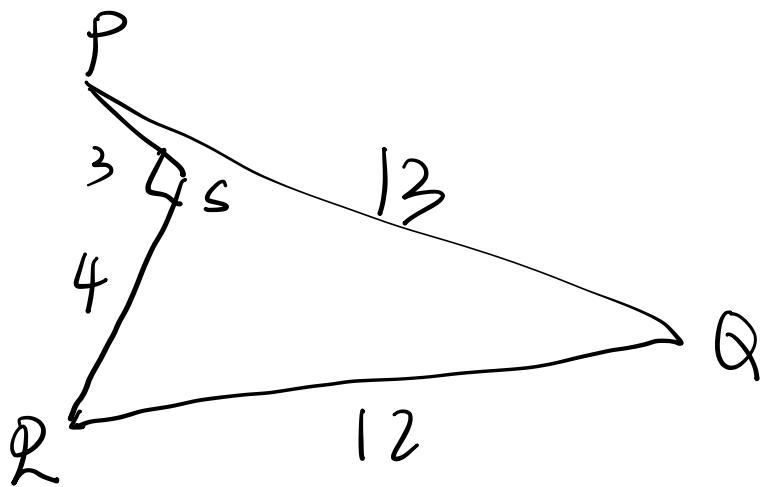
$$6 \sqrt{360} \overset{60}{\longrightarrow}$$

$$60 : 120 : 180$$

$$1 : 2 : 3$$



8



30 - 6

⇒ P

da (10)

v

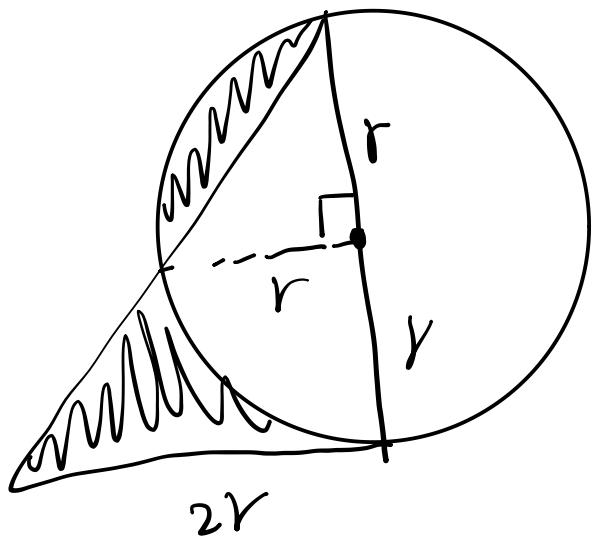
40 : 72 : 108 : 140

20 : 36 : 54 : 70

10 : 18 : 27 : 35

$$\begin{array}{r} 28 \\ \underline{27} \\ 55 \\ + 35 \\ \hline 90 \end{array} \Rightarrow D$$

(17)

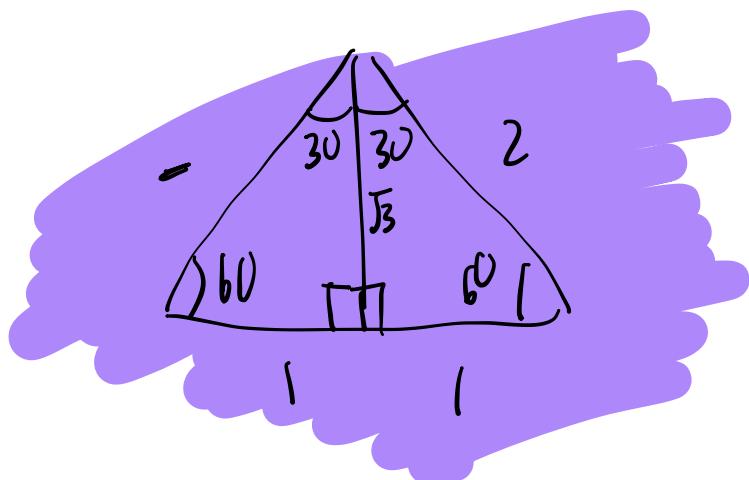
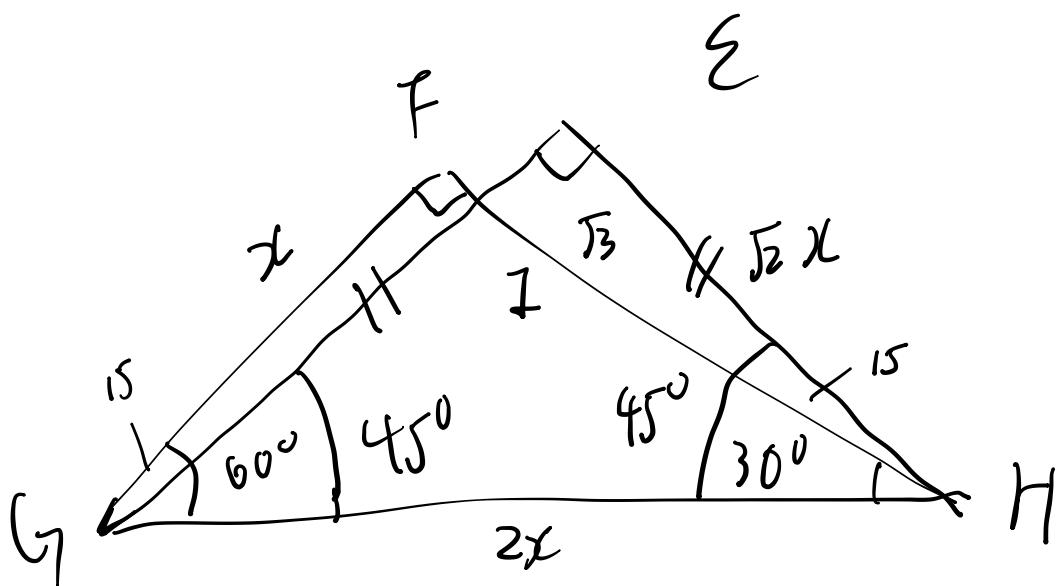


$$\cancel{\frac{1}{4}\pi r^2} - \frac{1}{2}r^2 + \frac{1}{2}(2r)^2 - \frac{1}{2}r^2 - \cancel{\frac{1}{4}\pi r^2}$$

$$= -r^2 + 2r^2$$

$$= r^2 \Rightarrow B$$

19



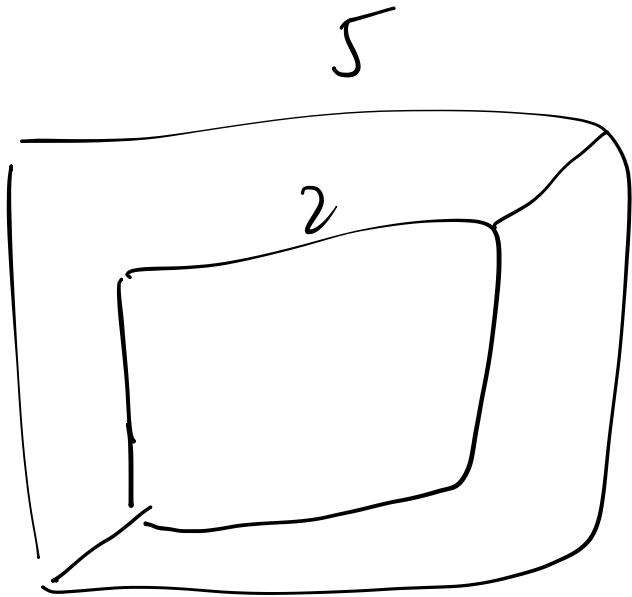
$$\cancel{2y^2} = 4x^2 \quad \Rightarrow \quad 1^2 : \sqrt{2}^2$$

$$y = \sqrt{2}x \quad = 1 : 2$$

22

(3) $\Rightarrow 6$

(4)

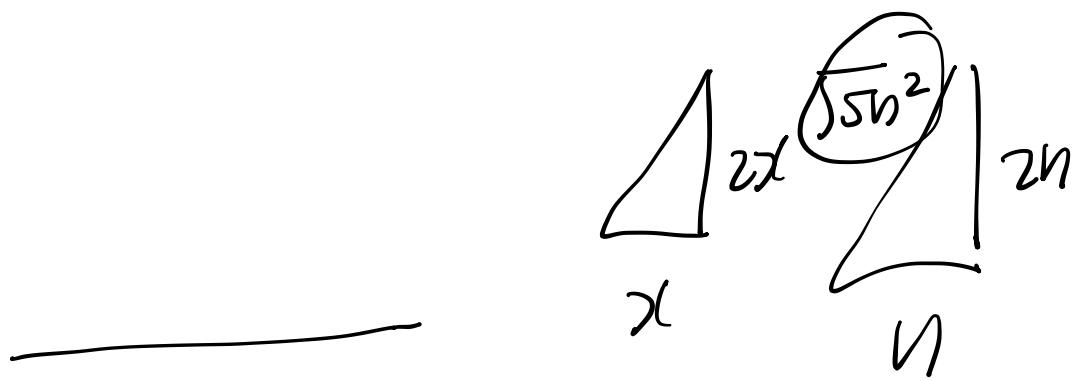
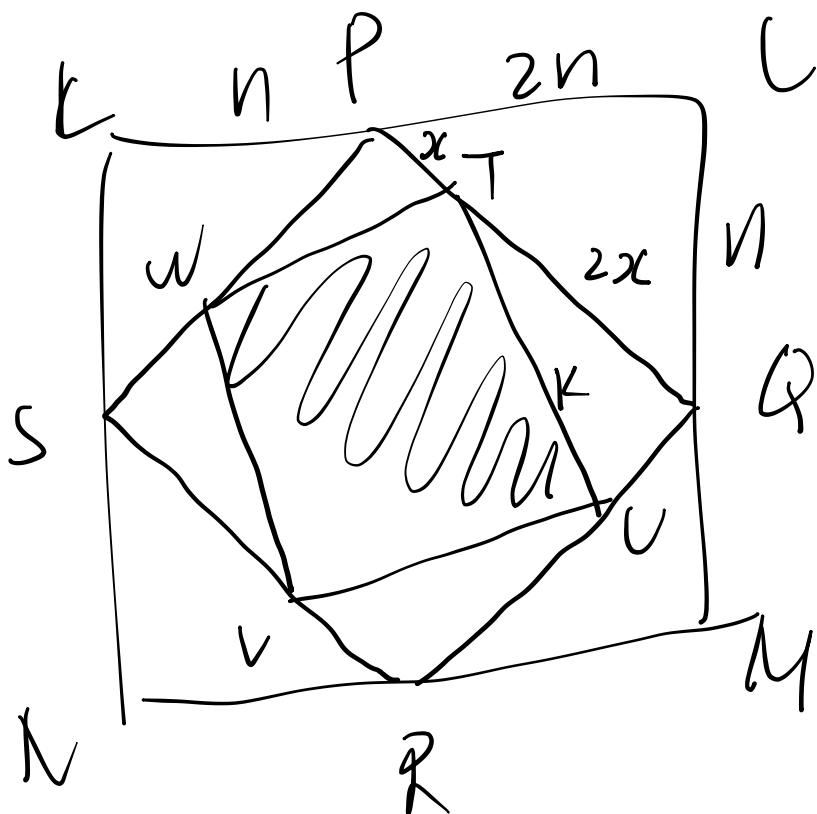


$$\frac{1}{2} \left(-\cancel{\frac{1}{4}}(25) - 4 \right) = \frac{8}{\cancel{-2}} \Rightarrow 11$$

⑧

$\Rightarrow \mathcal{E}$

⑯



$$(3h)^2$$

$$\sqrt{4h^2 + h^2}$$

$$K = \sqrt{\left(\frac{2\sqrt{5}n^2}{3}\right)^2 + \left(\frac{\sqrt{5}n^2}{3}\right)^2}$$

$$K = \overline{\frac{20n^2}{9} + \frac{5n^2}{9}}$$

$$= \overline{\frac{25n^2}{9}}$$

$$= \frac{\left(\frac{5n}{3}\right)^2}{(3n)^2} = \frac{25n^2}{9n^2}$$

$$\Rightarrow \theta = \frac{25n^2}{81n^2}$$

(1)

x^D

$$\sqrt{x} + \sqrt{y} = 1$$

$$y = (1 - \sqrt{x})^2$$

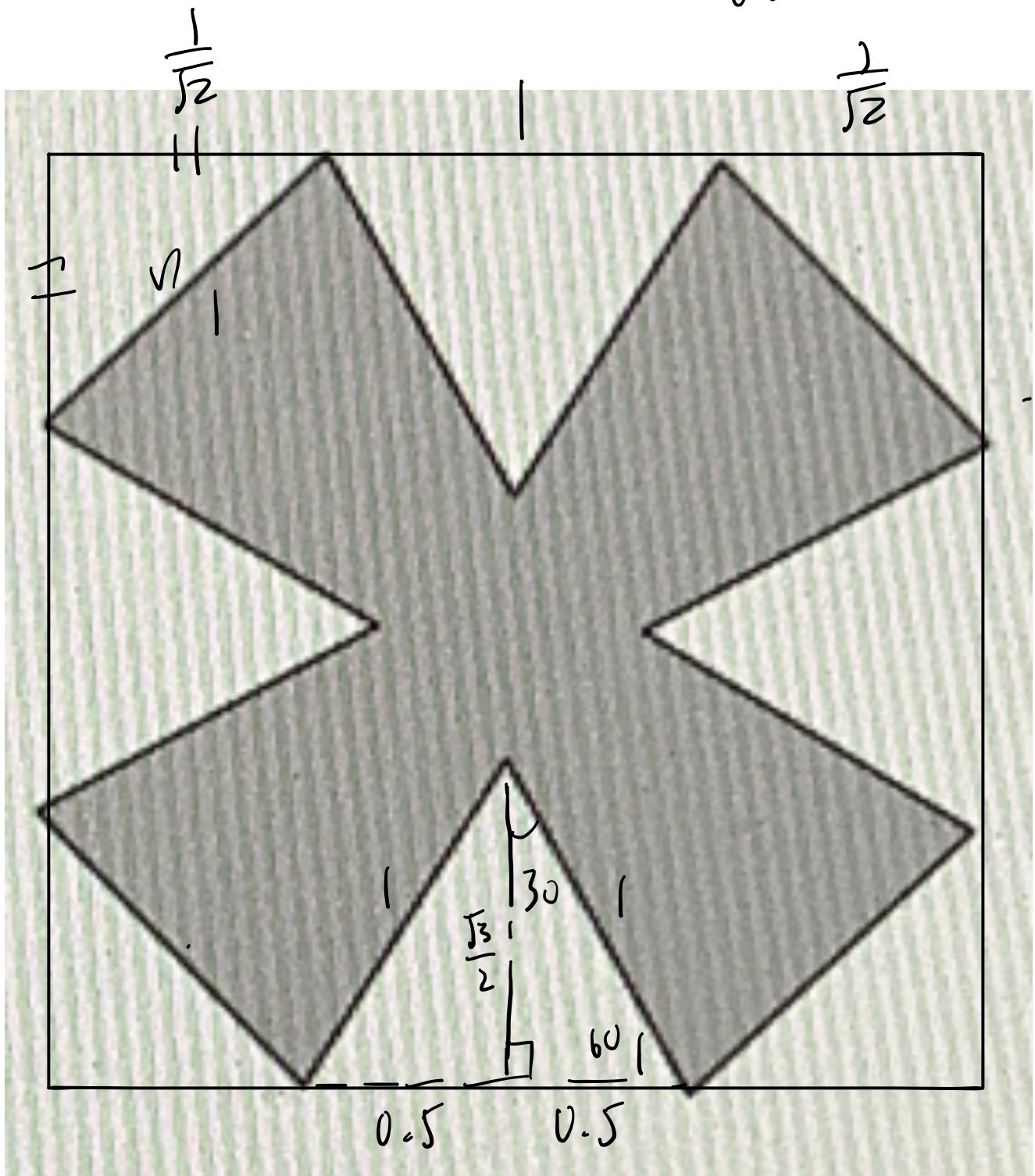
~~b~~ $\Rightarrow B$

\nearrow
 x 越大，
 y 越小

(17)

$$\frac{1}{2} \times 4 = \sqrt{3}$$

A right-angled triangle with a vertical leg of length 1 and a horizontal leg of length 1. The hypotenuse is labeled $\sqrt{3}$. The angle between the vertical leg and the hypotenuse is labeled 30° . The angle between the horizontal leg and the hypotenuse is labeled 60° .



$$2^{n^2} = 1$$

$$n = \sqrt{\frac{1}{2}} = 2 \left(\frac{1}{\sqrt{2}} \right)^2$$

$$(\sqrt{2} + 1)^2 - 2 \left(\frac{\sqrt{2}}{2} \right)^2 - \sqrt{3}$$

$$= 2 + 2\sqrt{2} + 1 - 1 - \sqrt{3}$$

⇒ B