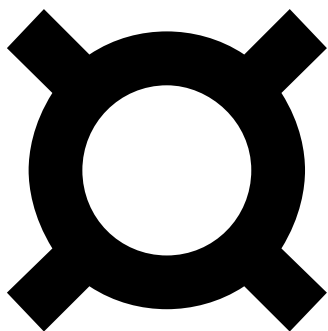


			2
	1 01 1 02		

	1. 2.	
	P19	



$$- \frac{1}{\underbrace{\quad \dots \quad}}(0)$$

 $\sqrt{\quad}$ $\sqrt{\quad}$

	P19	

$$\sqrt{\quad + \quad}$$

$$a^a = a^{a^+} \quad a \neq 0$$

$$(a^a)^a = a^{a^2} \quad a \neq 0$$

$$(ab)^a = a^a b^a \quad a \neq 0, b \neq 0$$

$$a \div a = a^{-1} \quad a \neq 0$$

$$\left(\frac{a}{b}\right)^a = \frac{a^a}{b^a} \quad a \neq 0, b \neq 0$$

$$a^a = a^{a^+} \quad a \neq 0$$

$$a^{-} = \frac{1}{a} \quad a \neq 0$$

$$(a+b+c) = a + b + c$$

$$(a+b)(a-b) = a^2 - b^2$$

$$(a \pm b)^2 = a^2 \pm 2ab + b^2$$

$$(a \pm b)(a \mp ab + b) = a^3 \pm b^3$$

$$|a - | + (b -) =$$

$$a - a + =$$

$$a + b + c = (a+b+c)$$

$$a^2 - b^2 = (a+b)(a-b)$$

$$a^2 \pm 2ab + b^2 = (a \pm b)^2$$

$$a^3 \pm b^3 = (a \pm b)(a^2 \mp ab + b^2)$$

$$+(a+b) + ab = (+ a)(+ b)$$

$$\frac{A}{B}$$

$$\frac{A}{B} = \frac{A \times M}{B \times M} \quad \frac{A}{B} = \frac{A \div M}{B \div M}$$

$$\frac{a}{c} \pm \frac{b}{c} = \frac{a \pm b}{c}$$

$$\frac{a}{b} \pm \frac{c}{d} = \frac{ad \pm bc}{bd}$$

$$\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$$

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \cdot \frac{d}{c} = \frac{ad}{bc}$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$\sqrt{a} \quad a \geq 0$$

$$\sqrt{a} \quad a \geq 0$$

$$(\sqrt{a})^2 = a \quad (a \geq 0)$$

$$\sqrt{a} = |a| = \begin{cases} a & a \geq 0 \\ -a & a < 0 \end{cases}$$

$$\sqrt{ab} = \sqrt{a} \sqrt{b} \quad (a \geq 0, b \geq 0)$$

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}} \quad (a \geq 0, b > 0)$$

$$\sqrt{(-a)^2} = |-a| = -a$$

$$\sqrt{(-a)^2} = |-a| = -a \geq -a \leq \sqrt{(-a)^2}$$

$$\sqrt{a^2} = |a| = \begin{cases} a & (a \geq 0) \\ -a & (a < 0) \end{cases}$$

$$\sqrt{a+b} \sqrt{a+b}$$

$$a + \sqrt{b} \quad a - \sqrt{b}$$

$$\sqrt{a} + \sqrt{b} \quad \sqrt{a} - \sqrt{b}$$

	P28	

<p>1 $ax+b=0$ $a \neq 0$</p> <p>1 0</p> <p>2 1 2 3 4</p> <p>1 5</p> <p>5 $x-1 = 3-2-3x-2$ $x+5$</p> <p>50 $2x-3 = 80-15x$</p>	
<p>1. $ax^2+bx+c=0$ ($a \neq 0$)</p> <p>2 3 4</p> <p>$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ ($b^2 - 4ac \geq 0$)</p> <p>2</p> <p>3. $ax^2+bx+c=0$ ($a \neq 0$) $\Delta = b^2 - 4ac$</p> <p>$\Delta > 0$ $x_1 = \frac{-b + \sqrt{\Delta}}{2a}$, $x_2 = \frac{-b - \sqrt{\Delta}}{2a}$</p> <p>$\Delta = 0$ $x_1 = x_2 = -\frac{b}{2a}$ $\Delta < 0$</p> <p>4. $ax^2+bx+c=0$ ($a \neq 0$) x_1, x_2</p>	
<p>$x_1 + x_2 = -\frac{b}{a}$, $x_1 x_2 = \frac{c}{a}$</p> <p>$x^2 - (x_1 + x_2)x + x_1 x_2 = 0$</p> <p>1 $x^2 - x - 2 = 0$ (P27)</p> <p>2 $x^2 + 4x - 5 = 0$ (P27)</p>	

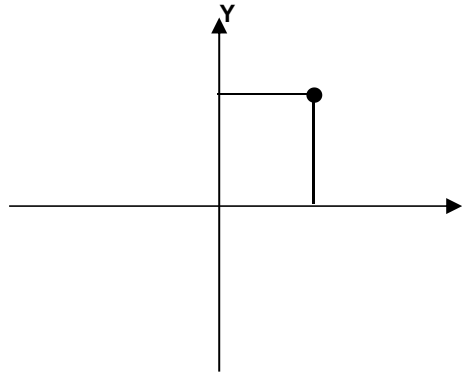
1				
2		0		
3				
1.				
2.				
	(a<b)			
		x b		
		x a		
		a x b		

<p>1. " x a" " x a"</p> <p>x 5 1; 2 2x 3;</p> <p>1 1 5 x</p> <p>1+5 x 4;</p> <p>2 3 2 x</p> <p>2 3;</p> <p>2</p> <p>$3(x+1) > 4x+2, \quad x < 1$</p> <p>x -2</p> <p>-2 x < 1</p> <p>-2 -1 0</p> <p>P33 36</p>	

a

b

 a b



1 P



2 P



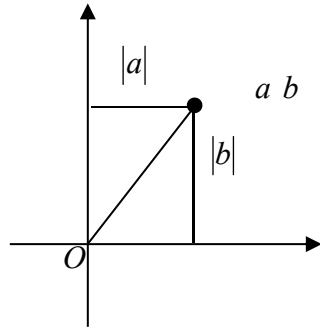
5.

$P \ a \ b$

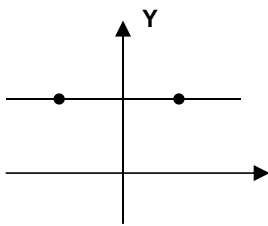
$|b|$

$b|a|$

$\sqrt{a \ b}$



6.



7.

P

P

P

8.

	1	$y=kx+b \quad k \neq 0$	$y=kx \quad k \neq 0$
	2		
	3		
			2
	1901	1902	ppt

?

?

- 1.
- 2.
- 3.
- 4.

$y=kx+b$ (2) $y=kx+b$ $y=kx$ (3) $y=kx+b$ $y=kx$ $ b $.					
1. $y=2x+3$ $y=-0.5x-2$					
2 $y=2x-1$ $y=-0.5x+1$ $y=2x$ $y=-0.5x$ 2					
$y=kx$ k $y=kx+b$ k					
$k>0$ y x					
$k<0$ y x					
$y=kx+b$					
$k>0$	$b>0$				
	$b<0$				
$k<0$	$b>0$				
	$b<0$				

1
2

$$y=2x$$

$$y=-2x$$

3

1
2

$$y=2x-3$$

(1,a) a=_____

$$y=2x-3 \quad x$$

$$y=2x-3 \quad y$$

x

$$y=kx+b$$

k b

3
4

$$y=kx+k \quad k \quad 0$$

			ppt

	P5 7	

	= -	≠				
	= -	= - $\frac{\sqrt{\quad}}{\quad}$			= $\frac{\quad}{+}$	
= - - -						
	= - +					
= -				= $\frac{+}{\quad}$		
= -	= $\frac{+}{\quad}$	= -	= $\frac{\quad}{+}$	= -	= - -	=
		≠				
				≠		
				≠		

$$\left\{ \begin{array}{l} = - (\neq) \\ = (\neq) \\ = - \bullet (\neq) \end{array} \right.$$

$$= - (\neq)$$

$$= - \bullet (\neq)$$

$$= -$$

$$- = -$$

$$=$$

$$= -$$

$$= -$$

$$= -$$

$$= -$$

$$= - =$$

$$= -$$

		$\underline{\quad} = (\underline{\quad} \neq)$	$\underline{\quad} = -(\underline{\quad} \neq)$
		$\underline{\quad}$ $\underline{\quad}$	$\underline{\quad}$ $\underline{\quad}$
		$\underline{\quad}$ $\underline{\quad}$	$\underline{\quad}$ $\underline{\quad}$
		$\underline{\quad}$ $\underline{\quad}$	$\underline{\quad}$ $\underline{\quad}$
		$\underline{\quad}$ $\underline{\quad}$	$\underline{\quad}$ $\underline{\quad}$

	1	a b c	
	2		
	3		
			2
	1901	1902	ppt

	1. 2. 3.	
	P63	

1. $y = ax^2 + bx + c (a, b, c \quad a \neq 0)$

$y \quad x$

2.

3.

$y = ax^2$

a

$$a > 0$$

$$a < 0$$

$$2 \quad b \quad a$$

$$b = 0$$

$$y \quad a \quad b$$

$$y \quad a \quad b$$

$$y$$

$$3 \quad c$$

$$y$$

$$c = 0$$

$$c > 0 \quad , \quad y$$

$$c < 0 \quad , \quad y$$

6.

1

$$y = ax^2 + bx + c = a\left(x + \frac{b}{2a}\right)^2 + \frac{4ac - b^2}{4a}$$

$$-\frac{b}{2a} \quad \frac{4ac - b^2}{4a}$$

$$x = -\frac{b}{2a}$$

2

$$y = ax^2 + bx + c$$

$$y = a(x - h)^2 + k$$

$$(h, k)$$

$$x = h$$

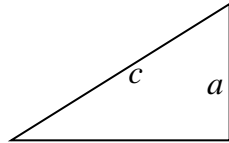
$$h = -\frac{b}{2a} \quad k = \frac{4ac - b^2}{4a}$$

3

...

7

1	$y = ax^2 + bx + c$	$x \quad y$
2	$y = a(x-h)^2 + k$	
3	x	$x_1 \quad x_2$
	$y = a(x-x_1)(x-x_2)$	
8.	x	
	$y = ax^2 + bx + c$	x
$x_1 \quad x_2$		$ax^2 + bx + c = 0$
	x	
1	$b^2 - 4ac > 0 \Leftrightarrow$	x
2	$b^2 - 4ac = 0 \Leftrightarrow$	$x \quad x$
3	$b^2 - 4ac < 0 \Leftrightarrow$	x
1	$y = mx^2 + x - 2$	m
2	$y = 5x^2 + 10mx + n$	2
3		$y = 5x^2 + 30x + 44$
	$m = \underline{\hspace{2cm}}$	$n = \underline{\hspace{2cm}}$
3	x	$A(-2,0) \quad B \quad 1 \quad 0$
C	$2 \quad 8$	
	1	2

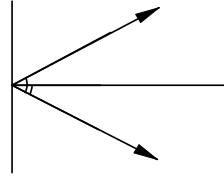


$A = \frac{\angle A}{\angle}$	$A = \frac{a}{c}$	$< A <$	$A =$ $A =$ $A +$
$A = \frac{\angle A}{\angle}$	$A = \frac{b}{c}$	$< A <$	
$A = \frac{\angle A}{\angle}$	$A = \frac{a}{b}$	$A >$	$A =$ $A =$ $A = \frac{\quad}{A}$ $A \cdot A$
$A = \frac{\angle A}{\angle A}$	$A = \frac{b}{a}$	$A >$	

α		-	$\sqrt{\quad}$	$\sqrt{\quad}$	
α		$\sqrt{\quad}$	$\sqrt{\quad}$	-	
α		$\sqrt{\quad}$		$\sqrt{\quad}$	
α		$\sqrt{\quad}$		$\sqrt{\quad}$	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"> $\begin{matrix} A = & B \\ A & B \end{matrix}$ </div> <div style="border: 1px solid black; padding: 5px;"> $\begin{matrix} A = & \circ - A \\ A = & \circ - A \end{matrix}$ </div> </div> <div style="display: flex; justify-content: center; align-items: center;"> α </div> <div style="display: flex; justify-content: center; align-items: center;"> α </div> <div style="display: flex; justify-content: center; align-items: center;"> α </div> <div style="display: flex; justify-content: center; align-items: center;"> α </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 20px;"> $A = \sqrt{\quad}$ $\frac{A}{\quad} =$ </div>					

$\sqrt{\quad}$	
$\sqrt{\quad}$ \circ_{-} $\circ_{.}$ \circ	$\frac{\circ_{+} \quad \circ}{\circ_{\times} \quad \circ}$

$$\frac{A}{\quad} \quad \frac{B+C}{\quad} \quad \frac{A}{B}$$

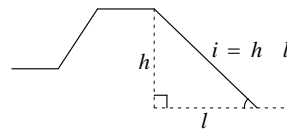


h

l

i

$$i = \frac{h}{l}$$



m

$i =$

α

$$i = \frac{h}{l} = \alpha$$

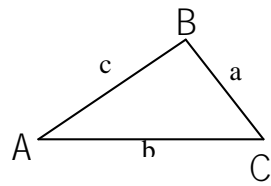
	1		
	2		
			2
	1901	1902	

- 1.
- 2.

.

P114

[1-6]

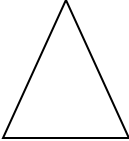


C ABC ABC ABC
 AB c , B AC b ,
 A BC a .

 [7] ABC,
 B , C, ?

 1 B C 2 B A C

AB+AC BC
 AC+BC AB
 AB+BC AC

<p> $\{$ </p> <p> $:$ </p> <p> $\{$ </p> <p> $"$ </p> <p> $"$ </p> <p>  </p> <p> $:$ </p> <p> $\{$ </p> <p> $\{$ </p> <p> 18 </p> <p> 2 </p> <p> 4 </p> <p> 1 </p> <p> 1 </p> <p> 2 </p> <p> 2 </p> <p> 4 </p> <p> 2 </p> <p> 1 </p> <p> x </p> <p> $x+2x+2x=18$ </p> <p> $x=3.6$ </p> <p> 3.6 </p> <p> 7.2 </p> <p> 7.2 </p> <p> $.$ </p> <p> x </p>	<p> 1 </p> <p> 2 </p> <p> x </p>
<p> 2 </p> <p> 4 </p>	<p> 1 </p> <p> x </p>

$$4+2x=18$$

$$x=7$$

$$4$$

$$2 \times 4+x=18$$

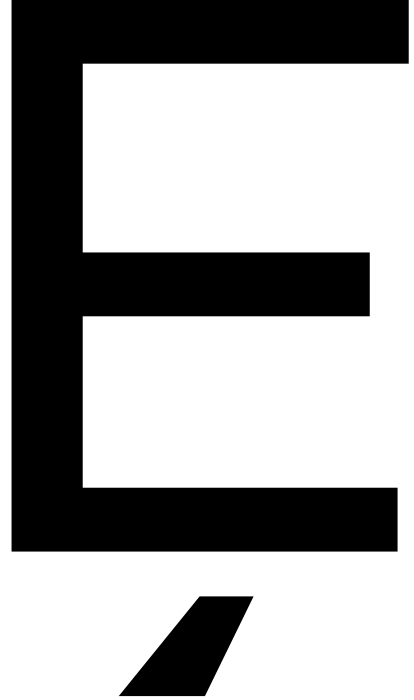
$$x=10$$

$$4+4 \quad 10$$

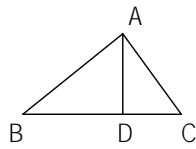
$$4$$

x

4



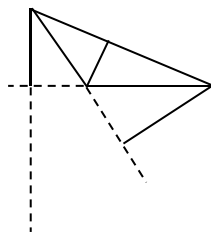
ABC



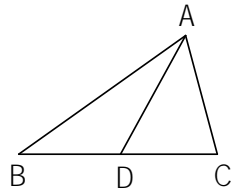
ABC A BC
 D AD ABC BC
 AD BC D

AB AC

ABC

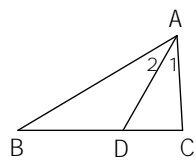


$BD=DC$ AD ABC A BC
 $BD=DC$ $BD=DC$ $1/2BC$ $2BD=2DC=BC.$



ABC

$BAD=$ A AD A BC D
 CAD ABC $,$ $BAD=$ CAD
 $1/2$ BAC 2 $BAD=2$ CAD
 BAC



1	
2	2
3	

1	
A	
B	
C	
D	

			ppt

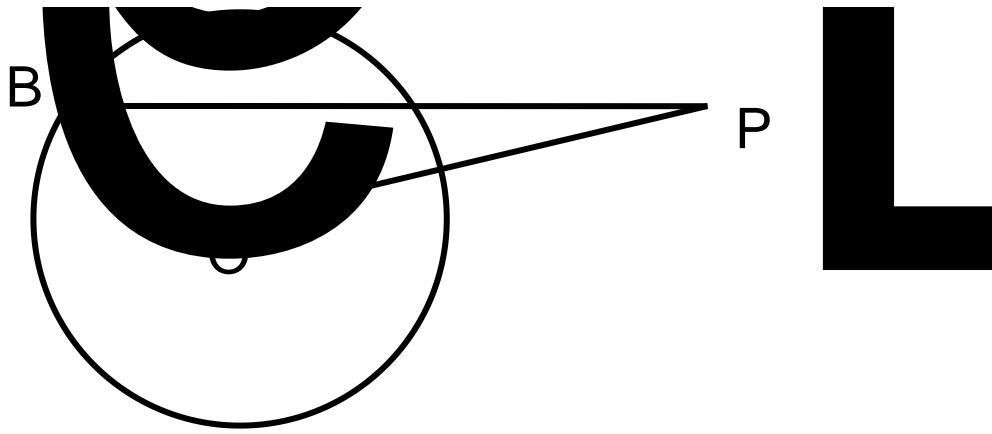
	P100	

$$\frac{\pi R}{\pi R} = \frac{\pi R}{\pi R}$$

$$\frac{\pi R}{\pi R} = \frac{n\pi R}{n\pi R}$$

$$\frac{n\pi R}{n\pi R}$$

$\frac{n\pi R}{n}$	



D d 0

		4	4.1.6
		1	
		2019.11.25	1902

	<p>1</p> <p>$\frac{2}{\alpha} = 2$</p> <p>$\alpha = -$</p> <p>2</p> <p>$\frac{2}{\alpha}(\) = 2(\)$</p> <p>360 2 180</p>	<p>1</p> <p>2</p>	

	$1 \frac{1}{180} () \approx 0.01745$ $1 = \frac{180^\circ}{\pi} \approx 57.30^\circ \approx 57^\circ 18'$		
	<p>240 22 30</p> $1 \frac{1}{180} () \approx 0.01745$ $240^\circ = \frac{\pi}{180} \times 240 = \frac{4}{3} \pi$ $(2) 22^\circ 30' = 22.5^\circ = \frac{\pi}{180} \times 22.5 = \frac{\pi}{8}$ <p>$\frac{3}{5}$ 2.1</p> $1 = \left(\frac{180}{\pi}\right)^\circ \approx 57.3^\circ \approx 57^\circ 18'$ $\frac{3\pi}{5} = \frac{3 \times 180^\circ}{5} = 108^\circ$ $2.1 = \frac{180^\circ}{\pi} \times 2.1 = \frac{378^\circ}{\pi} \approx 120.32^\circ$		
1.		PPT	
2.			

		0 1	
	60	$\frac{3}{3}$	
		$= \alpha = \frac{3}{3} \times 45 \approx 3.142 \times 15 \approx 47.1$	
		47.1	