2021

8 5 40

$A=\{x|-2 \quad x \quad 3\}$ $A=\{x|2^x \quad 2\}$ $(\complement_{\mathbb{R}}A)\cap B=$

$(1,3)$ $(1,3]$ $(3,+¤)$ $[3,+¤)$

2018 I 2 $A=\{x|x^2-x-2 \quad 0\}$ $\complement_{\mathbb{R}}A$

$\sin a=\frac{1}{3}$ $\cos(\pi+2a)=$

$-\frac{7}{9}$ $-\frac{2\sqrt{2}}{9}$ $\frac{2\sqrt{2}}{9}$ $\frac{7}{9}$

2018 $\sin a=\frac{1}{3}$ $\cos 2a=$

$\overrightarrow{AB}=(2,3)$ AC $(3,t)$ $|\overrightarrow{BC}|=1$ $\overrightarrow{AB}\cdot\overrightarrow{BC}=$

-3 -2 2 3

2019 II 3

$a=0.6^{0.6}$ $b=0.6^{0.5}$ $c=0.7^{0.5}$

$a \quad b \quad c$ $a \quad c \quad b$ $b \quad c \quad a$ $c \quad b \quad a$

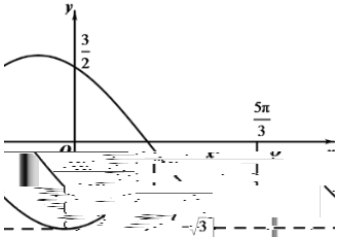
2019 3 $a=\log_2 0.2$ $b=2^{0.2}$ $c=0.2^{0.3}$

$(2x-1)(x+2)^5$ x^3

200 120 80 40

2017 6 $\left(1+\frac{1}{x^2}\right)(1+x)^6$ x^2

$f(x)=A\sin(wx+f)(A \quad 0,w \quad 0,0 \quad f \quad \pi)$

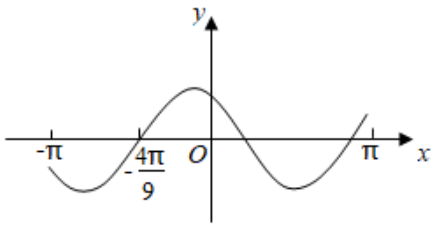


$f(x)=\sin\left(x+\frac{\pi}{3}\right)$ $f(x)=\sqrt{3}\sin\left(\frac{x}{2}+\frac{\pi}{3}\right)$

$f(x)=\sqrt{3}\sin\left(\frac{x}{2}+\frac{2\pi}{3}\right)$ $f(x)=\sqrt{3}\sin\left(x+\frac{2\pi}{3}\right)$

2020 7 $f(x)=\cos\left(\omega x+\frac{\pi}{6}\right)$ $[-\pi,\pi]$

$f(x)$



$\frac{1}{4}$ $\frac{1}{3}$ $\frac{5}{16}$ $\frac{2}{5}$

2020 II 7

$f(x)=\begin{cases}xe^{x}, & x\ 1,\\ x^{2}-2x, & x\ 1,\end{cases}$ $g(x)=f(x)-a$ $g(x)$ a

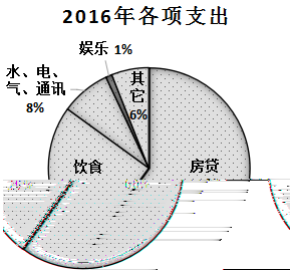
$\left(1,-\frac{1}{e}\right)$ $\left(-\frac{1}{e},e\right)$ $[0,+\infty)$ $\left(-\frac{1}{e},0\right)\cup[0,e]$

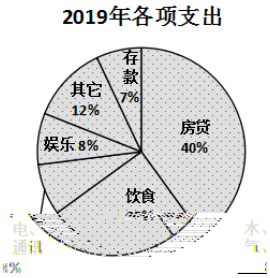
2018 I 9 $f(x)=\begin{cases}e^{x}, & x\ 0,\\ \ln x, & x\ 0,\end{cases}$ $g(x)=f(x)+x+a$ $g(x)$

a

4 **5** **20**

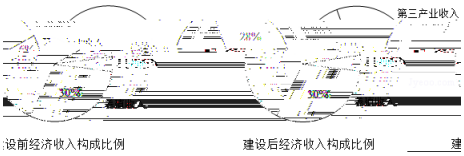
5 **0** **3**





1.5

1 2018 I 3



( )

$f(x)$ **R** $(1,0)$

$f(x)$ $f(x)=f(4-x)$

$f(x)=\cos\frac{\pi x}{2}$ $f(x)=\sin\pi x$

2019 I 11 $f(x)=\sin|x|+|\sin x|$

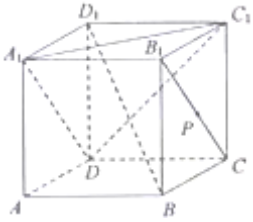
$ABCD-A_1B_1C_1D_1$ P B_1C

$B_1D\perp$ APC

$P-A_1C_1D$

P C_1P A_1C_1D 60°

P AP A_1D 60°



1 2017 II 10 $ABC-A_1B_1C_1$ $\angle ABC=120^\circ$ $AB=2$ $BC=CC_1=1$ AB_1 BC_1

2 2018 I 12 1 α α

$E:\frac{x^2}{a^2}+\frac{y^2}{b^2}=1(a\quad b\quad 0)$ F_1,F_2 $|F_1F_2|=2c$ P E O M N $\overrightarrow{F_1P}=3\overrightarrow{MP}=3\overrightarrow{F_1N}$ $\overrightarrow{F_2M}\cdot\overrightarrow{OP}=0$

E $\frac{\sqrt{5}}{5}$ OMN

$|\overrightarrow{OP}|=2\sqrt{\overrightarrow{OF_2}\cdot\overrightarrow{OP}}$ $\overrightarrow{PF_1}\cdot\overrightarrow{PF_2}=2a^2-2ac-c^2$

2018 I 8 C $y^2=4x$ F $(-2,0)$ $\frac{2}{3}$ C M N $\overrightarrow{FM}\cdot\overrightarrow{FN}=$( )

2019 I 16 C $\frac{x^2}{a^2}-\frac{y^2}{b^2}=1(a>0,b>0)$ F_1 F_2 F_1 C A B $\overrightarrow{F_1A}=\overrightarrow{AB}$ $\overrightarrow{F_1B}\cdot\overrightarrow{F_2B}=0$ C ___

2018 I 11 C $\frac{x^2}{3}-y^2=1$ O F C F C M N. $\triangle OMN$ $|MN|=$( )

4 **5** **20**

z $z(1+\mathrm{i})=2\mathrm{i}$ $|z|=$_____

2018 **I** **2** $z=\dfrac{1-\mathbf{i}}{1+\mathbf{i}}+2\mathbf{i}$ $|z|=$

$\{a_n\}$ n S_n $a_4=4$ $S_8=40$ $a_9=$_____

n

2018 **I** **2** S_n $\{a_n\}$ n $S_n=2a_n+1$ $S_6=$_____

$C:\dfrac{x^2}{a^2}-\dfrac{y^2}{b^2}=1(a>0,b>0)$ $(x-2)^2+y^2=4$ $2\sqrt{3}$

C _____

2017 **II** **9** C $\frac{x^2}{a^2}-\frac{y^2}{b^2}=1(a>0,b>0)$ $(x-2)^2+y^2=4$

2 C ( )

6 6

_____

2020 **16**