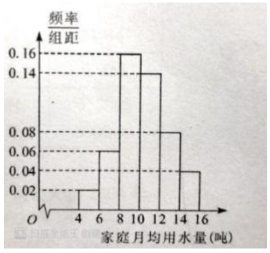
州七中 二下数学期中 拟卷

$A=\{x|y=\lg(1-x)\}$ $B=\{y|y=2^x\}$ $A\cap B=($ $)$

$(0,+\infty)$ $[-1,0)$ $(0,1)$ $(-\infty,1)$

$>$ $+$ —— $\geq$ $\in$ $+\infty$



$(1+x+x^2)(1-x)^{10}$ x^4 $($ $)$

-135 -117

$+$ $=$ $+$ $+$ $+\cdots$ $+$ $+$ $+$

ξ $N(1,2)$ $P(0<\xi<1)=0.26$ $f(x)=e^x+\xi$ $($ $)$

0.24 0.26 0.74 0.76

$\begin{cases}x+y+2\geqslant 0\\ x-y-2\leqslant 0\\ y+m\leqslant 0\end{cases}$ $z=2x-y$ $($ $)$

-1

$a>0$ $f(x)=\lg(ax^2+2x+3)$ R $g(x)=x+\frac{a}{x}$ $(1,+\infty)$

$\neg p\wedge q$ $($ $)$

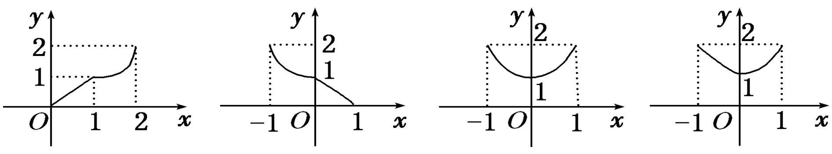
$(-\infty,0]$ $(-\infty,\frac{1}{3}]$ $\left(0,\frac{1}{3}\right]$ $\left(\frac{1}{3},1\right]$

$=\begin{cases} + \quad - \quad \geq \\ - \quad - \quad < \end{cases}$ $\in R$ $<|$ $|<|$ $|$

$-$ $>$ $-$ $<$

$+$ $<$ $+$ $>$

$\begin{cases} + \quad \in - \\ + \quad \in \end{cases}$



[redacted]

$f(x)=\frac{x}{1+|x|}(x\in R)$

$f(-x)+f(x)=0$ $x\in R$ $f(x)$ $(-1,1)$

$x_1\neq x_2$ $f(x_1)\neq f(x_2)$ $g(x)=f(x)-x$

D_J D_E $D_J\subsetneqq D_E$ $\in D_J$ $=$

D_E $=^{-}$ $-$ $>$ R

$<$ $=^{-}$ $-$

$>$ $-$ $\cup$ $+\infty$ $\forall$ $\in$ $|$ $-$ $|\leq$

$x>2m^2-3$ $-1<x<4$ __________

$f(x)$ $x($ $)$

$$f(x)=\begin{cases}-\frac{7}{20}x+1,0<x\leq 1,\\ \frac{1}{5}+\frac{9}{20}x^{-\frac{1}{2}},1<x\leq 30.\end{cases}$$

①

②9 40

③26 20

.( )

$$f(x)=\begin{cases}|\ln x|,x>0\\ x^2+4x+1,x\leq 0\end{cases}$$ $f^2(x)-bf(x)+c=0(b,c\in R)$

$b+c$

____

$f(x)=||x-1|-1|$ $f(x)=m(m\in R)$ x_1,x_2,x_3,x_4

$x_1x_2x_3x_4$

$$\begin{cases}x-y\leq 0,\\ x+y-5\geq 0,\\ y-3\leq 0,\end{cases}$$

$f(x) = 2a\cdot4^x - 2^x - 1$

(1) $a = 1$ $f(x)$ $[-3,0]$

(2) $f(x) = 0$

	$18-24$	$25-49$	$50-64$	

( ) 99%

$K^2 = \frac{n(ad-bc)^2}{(a+b)(c+d)(a+c)(b+d)}$

$P(K^2 \geq k_0)$	0.25	0.15	0.10	0.05	0.025	0.010
k_0	1.323	2.072	2.706	3.841	5.024	6.635

( ) $18-64$

$18-24$

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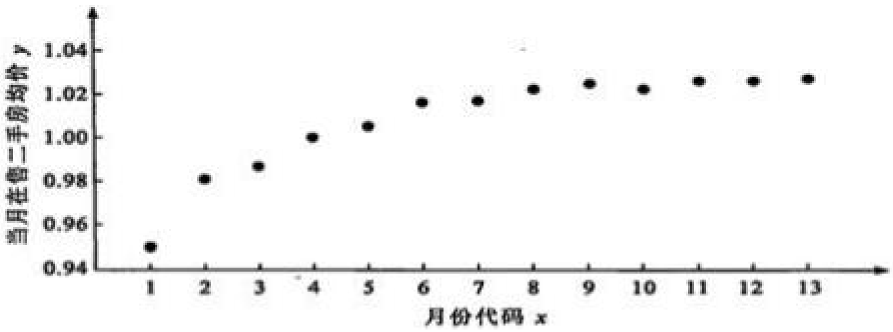
(/)

1—13 —2018)



$y = a + b\sqrt{x}$ $y = c + d\ln x$

$\hat{y} = 0.9369 + 0.0285\sqrt{x}$ $\hat{y} = 0.9554 + 0.0306\ln x$

	$\hat{y}=0.9369+0.0285\sqrt{x}$	$\hat{y}=0.9554+0.0306\ln x$
残差平方和$\sum_{i=1}^{13}(y_i-\hat{y}_i)^2$	0.000 591	0.000 164
总偏差平方和$\sum_{i=1}^{13}(y_i-\bar{y})^2$	0.006 050	

(1)

(2) $m(70 \le m \le 160)$ (

) (1)

(i) .(= + 0.001 /)

(ii) .(

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契税（买方缴纳）	首套面积 90 平方米以内（含 90 平方米）为 1%；首套面积 90 平方米以上且 144 平方米以内（含 144 平方米）为 1.5%；面积 144 平方米以上或非首套为 3%
增值税（卖方缴纳）	房产证未满 2 年或满 2 年且面积在 144 平方米以上（不含 144 平方米）为 5.6%；其他情况免征
个人所得税（卖方缴纳）	首套面积 144 平方米以内（含 144 平方米）为 1%；面积 144 平方米以上或非首套均为 1.5%；房产证满 5 年且是家庭唯一住房的免征

$\ln 2 \approx 0.69, \ln 3 \approx 1.10, \ln 7 \approx 2.83, \ln 19 \approx 2.94, \sqrt{2} \approx 1.41, \sqrt{3} \approx 1.73, \sqrt{17} \approx 4.12, \sqrt{19} \approx 4.36$

$R^2 = 1 - \frac{\sum_{i=1}^{n}(y_i-\hat{y}_i)^2}{\sum_{i=1}^{n}(y_i-\bar{y})^2}$

州七中 二下数学期中 拟卷 参

$\frac{1}{3}$ $\frac{25}{13}$

(1) $a=1$ $f(x)=2\cdot4^x-2^x-1=2(2^x)^2-2^x-1$

$t=2^x$ $x\in[-3,0]$ $t\in[\frac{1}{8},1]$

$y=2t^2-t-1=2(t-\frac{1}{4})^2-\frac{9}{8}$

$t\in[\frac{1}{8},1]$ $f(x)$ $[-\frac{9}{8},0]$

(2) $2a(2^x)^2-2^x-1=0$

$2^x=m>0$ $2am^2-m-1=0$ $(0,+\infty)$

$g(m)=2am^2-m-1$ $g(m)$ $(0,+\infty)$

$a=0$ $g(m)=-m-1$ $m=-1<0$

$a<0$ $m=\frac{1}{4a}<0$

$g(m)$ $(0,+\infty)$ $g(m)<g(0)=-1$ $g(m)$ $(0,+\infty)$

$a>0$ $m=\frac{1}{4a}>0$

$g(m)$ $(0,\frac{1}{4a})$ $(\frac{1}{4a},+\infty)$ $g(\frac{1}{4a})<g(0)=-1$

$g(m)=0$ $(0,+\infty)$

$a>0$

$(0,+\infty)$

( )

$$K^2=\frac{100\times(20\times15-30\times35)^2}{55\times45\times50\times50}\approx9.091>6.635$$

99%

( )

$\frac{4}{7}$

	$\frac{10}{21}$	$\frac{10}{21}$	$\frac{1}{21}$

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$(\ )$

$<$

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$\in(\quad] \qquad \frac{+}{\quad} - \quad = \frac{-}{\quad} <$

$= \frac{+}{\quad} <$

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$(\ ) \quad \left[\frac{+}{\quad} \quad \right) \qquad (\ ) \quad \left(\quad \frac{+}{\quad} \right]$

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R

(1) $\hat{y} = 0.9369 + 0.0285\sqrt{x}$ $\hat{y} = 0.9554 + 0.0306lnx$

R_1^2 R_2^2

$R_1^2 = 1 - \frac{0.000591}{0.00605}, R_1^2 = 1 - \frac{0.000164}{0.00605}$ $R_1^2 < R_2^2$

$\hat{y} = 0.9554 + 0.0306lnx$

(2) (1) $\hat{y} = 0.9554 + 0.0306lnx$

$\hat{y} = 0.9554 + 0.0306ln18 =$

$0.9554 + 0.0306(ln2 + 2ln3) \approx 1.044$

(i)

① $70 \leq m \leq 90$ 1%

$h = m \times 1.044 \times (1\% + 1) = 1.05444m$

② $90 < m \leq 144$ 1.5%

$h = m \times 1.044 \times (1.5\% + 1) = 1.05966m$

③ $144 < m \leq 160$ 3%

$h = m \times 1.044 \times (3\% + 1) = 1.07532m$

$$h = \begin{cases} 1.05444m, 70 \leq m \leq 90 \\ 1.05966m, 90 < m \leq 144 \\ 1.07532m, 144 < m \leq 160 \end{cases}$$

∴ $70 \leq m \leq 9$ $1.05444m$

$90 < m \leq 144$ $1.05966m$

$144 < m \leq 160$ $1.07532m$

(ii)

(i) $70 \leq t \leq 90$ $1.05444t$

$1.05444t \leq 1.05444 \times 90 < 100$

$90 \leq t < 100$ $1.05966t$

$1.05966t \leq 100$ $t \leq \frac{100}{1.05966}\frac{100}{1.05966}$

$\frac{100}{1.05966} \approx 94.4$