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.. 14

“ — ” 25

..... 33

...../45

“ -2000” \$8

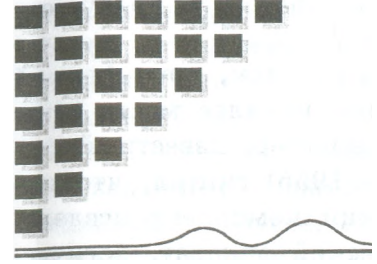
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 . (1879—1955) , -
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 [1, . 253]. -
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 (1869—1953). -
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$$: 101 \cdot 50 = 5050.$$

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$$1+2+3+ \dots +100.$$

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$$: 1+100=2+99=3+98= \dots =50+51=101,$$
$$: 101 \cdot 50.$$

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[1, . 110—111].

[7, . 359].

“ !” [5, . 389].

[3, . 123—127]

$$X^3 \pm y^3 = (x \pm y)(x^2 + xz + z^2),$$

$$\pm = (\pm) (* + 3 + 2 \setminus \cdot 2 + \setminus$$

$$- \quad \pm, \quad \wedge$$

$$) \quad 3 - 2 - 81 + 81 = 0,$$

$$) \quad 3 + 2 - 16 - 48 = 0,$$

$$) \quad 3 + 2 - 6 - 8 = 0,$$

$$\dots$$

$$) \quad \{-4; -1; 2\}, \quad 1 \quad 2 \quad 3 \quad (\quad) \quad \{-9; 1; 9\}; \quad) \quad \{-4; -3; 4\};$$

$$+ \quad 2 \quad 3, \quad 1 \quad 2 \quad 3$$

$$3 + 1 \quad 2 + 2 \quad + \quad 3 = 0,$$

$$1 \quad 2 \quad 3 \quad 1 \quad 2 \quad 3$$

\vdots
) 1; 2; 3; 4; 5; 6;

\vdots
 $=$.

- \vdots
) 2; 4; 6; 8; 10; 12; ... ($=2$, $n \in \mathbb{N}$).
) 3; 5; 7; 9; 11; 13; ... ($=2 + 1$, $n \in \mathbb{N}$).
) 1; 3; 5; 7; 9; 11; ... ($=2 - 1$, $n \in \mathbb{N}$).

\vdots
) $\frac{1}{2}$; $\frac{3}{4}$; $\frac{5}{6}$; $\frac{7}{8}$; $\frac{9}{10}$; $\frac{11}{12}$; ...

$$\frac{x^2}{3} + \frac{48}{x^2} = 10 \left(\frac{x}{3} + \frac{4}{x} \right)$$

1991

h_a, h_b — „ $\frac{1}{h_a} + \frac{1}{h_b} > \frac{1}{h_c}$ “

$$\frac{1}{h_a} + \frac{1}{h_b} > \frac{1}{h_c}$$

”： “
?”

$$5+4+1 = (5-3+2) + (4-2+1) + (3-+1) =$$

$$= 2(3-+1) + (3-+1) + (3-+1) = (3-+1)(2+ +1).$$

1. $y=f(x),$
 $[4; 5];) R;$
2. $;$)
 $;$)
 $;$)
 $;$)

$$\frac{1}{1-2} - \frac{1}{2-3} + \frac{1}{3-4} - \dots + \frac{1}{n(n+1)}$$

$S_1 = 1 - \frac{1}{2} = \frac{1}{2}$; $S_2 = 1 - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} = \frac{2}{3}$; $S_3 = 1 - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} = \frac{3}{4}$

$$S_n = \frac{n}{n+1}$$

"... [6, . 319].

1.

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(;),

$$= 1 - \frac{1}{n+1}$$

Va.

$$\frac{\sqrt{2}}{2}$$

0,5.

$$\bullet \quad 2. \quad (1+2)(1+2)(1+3) = 1 \cdot 2 + 2 \cdot 3 + 3 \cdot 4$$

$$= 1 \cdot 2 + 3 \cdot 2 = 4$$

$$(1+1)(1+1) \cdot$$

1. — ., 1963.
2. — ., 1978. — 191 .
3. / — ., 1980. — 368 .
4. : . — ., 1961. — 208 .
5. / ; — ., 1975. — 463 .
6. ; — . : / , 1970. — 452 .
7. / ; — ., 1983. — 560 .



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