lado patophar pavora -1. $F(x) = x^2 + x - 1, \quad [1; 4]$ 1. Построить верхнюю и напеньюю сумии Дарбу. (п частей). n orp. clepsy(4) in chapy(1) f(x)-bospactaer na [1,4], creyo Barero no, ecin мы разобъем [1,4] ма п гастей $y: 1, 1+\frac{3}{n}, 1+\frac{6}{n}, 1+\frac{9}{n}, \dots, 1+\frac{3(k-1)}{n}, \dots, 1+\frac{3n}{n}, Lell$ TO gun DX; = X; -X; -, f(x; -1) = inf f(x), f(xi) = sup f(x). Torga human cyuna Dapóy $+\left(\left(1+\frac{3\ln 3}{2}+\left(1+\frac{3\ln 3}{2}-7\right)\right)=$ $\frac{3}{n}\left(1+\left(1+\frac{6}{n}+\frac{3^2}{n^2}+\frac{3}{n}\right)+\left(1+\frac{12}{n}+\frac{6^2}{n^2}+\frac{6}{n}\right)+...\right)=$ $\frac{3}{n} \left(n + \frac{\frac{10}{n} + \frac{9}{n}(n-2)}{2} (n-1) + \sum_{i=1}^{n} \frac{3i}{n} \right)^{2} \right).$ A Bepanar: $S(n) = \frac{3}{n} \left(n + \frac{\frac{1}{n} + \frac{9}{n} (n-1)}{2} \cdot n + \sum_{i=1}^{n} \left(\frac{3i}{n} \right)^{2} \right)$ Marparep, gir n=5: hum HRA = 20,28

bed x n x = 31.08

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Famour, no
$$S(x)$$
-u $S(x)$ otherwealth ha ogan
Framewor, cregobareas no,
 $S(x)-s(x)=\frac{3}{n}\left(\frac{9n}{n}+\frac{9n}{n}\right)$

Tache, gok- 76 unterpupy emoité + Tou gynayun momno repez konedamme
$$f(x)$$
 no orpezze, 7. e. $W_1(f) = M_{i-m_i}$

$$\lim_{n \to \infty} \frac{3}{n} \left(n + \frac{\frac{1!}{n} + \frac{9}{n}(n-1)}{2} \cdot n + \sum_{n \in \mathbb{Z}} \left(\frac{3i}{n} \right)^{2} \right) = \lim_{n \to \infty} \left(4n + \frac{\frac{1!}{n} + \frac{9}{n}(n-1)}{2} \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n}(n-1) \cdot n \right) = \lim_{n \to \infty} \left(4n + \frac{1!}{n} + \frac{9}{n} +$$

=
$$3 \lim_{n \to \infty} \left(\frac{9}{2n} + \frac{17}{2} \right) = \frac{57}{2}$$

4.
$$\int_{1}^{4} (x^{2} + x - 1) dx = F(x) | \frac{dt}{dt} = F(4) - F(1)$$

$$F(x) = \frac{x^3}{3} + \frac{x^2}{2} - x$$
. $= > F(x)_1^4 = \frac{76}{3} + \frac{1}{6} = \frac{51}{2}$.

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