Будагян Артем Игоревич ИВТ 1 п/г

Upmerpouse u
дирференциальные уравнения
Typouzboonoie (not mayeure) $f(x_0 + \Delta x) - f'(x)$ $\Delta x \qquad ((n y)' = \frac{y'}{y}$
f(x0) = Cim 1(x0+AX)+f(X) ((ay) = y ((ay) = y
(10) = 10 . 0 · (nu + u . u . 4 · (x)
Demorme zagar
y'-? y'=(11.arcctg2(h 5x+5x) = 11.(arcctg2(n 5x+5x))=
=11.2 arcetg \(\lambda \) \(\frac{5\times + J\times}{12\times - 5} \) \(\frac{1}{14\lln \frac{5\times + J\times}{12\times - 5}} \) \(-\left(\frac{5\times + J\times}{12\times - 5} \right)^2 \) \(-\left(5\times + J\times + J\ti
(- 1+ln = 5x+JR). 5x+JR (2x-5) = 11-2-arcota ln 0x-5
(5+3x)(12x2-5)-(5x+5x)(12x2-6) (5-25x1)-25(5x+5x)-34x
$\frac{(12x^2-5)}{(10\sqrt{x}+1)(12x^2-5)-2\sqrt{x}\cdot\sqrt{x}\cdot\sqrt{5\sqrt{x}}\cdot24x} = \frac{1}{2\sqrt{x}(12x^2-5)^{\frac{1}{2}}}$ $\frac{(10\sqrt{x}+1)(12x^2-5)-48x^2(5\sqrt{x}+1)}{(5\sqrt{x}+1)(12x^2-5)^{\frac{1}{2}}}$
$\frac{-48x^{2}(5\sqrt{x}+1))}{(10x^{2}-5)^{2}} = -22 \cdot \operatorname{arcctg} \ln \frac{5x^{4}\sqrt{x}}{12x^{2}-5} \cdot \frac{1}{1+(n^{2}\frac{5x^{4}\sqrt{x}}{12x^{2}-5})}$

