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Контрольные вопросы:

Задания для аудиторной работы:

Задания для самостоятельной работы:

Контрольные вопросы:

Задания для аудиторной работы: 1.1- (-5, (5, (5/ (-

Задания для самостоятельной работы: 1.4- (05, (-5, (5/ (-

Контрольные вопросы:

Задания для аудиторной работы: 164, 171, 191, 209, 253, 263, 276, 287, 298 [5].

Задания для самостоятельной работы: 165, 173, 192, 211, 255, 268, 278, 288, 296 [5].

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$$\lim_{x \rightarrow \infty} \frac{2x^2 - 3x - 4}{\sqrt{4x^4 + 1}} \quad \lim_{x \rightarrow \infty} (\sqrt{x^2 + x + 3} - \sqrt{x^2 - 3x + 1}) \quad \lim_{x \rightarrow 0} \frac{\arctg 3x}{7x} \quad \lim_{x \rightarrow \infty} (2x - \sqrt{x^3 + 4x^2})$$

$$\lim_{x \rightarrow 0} \frac{5x}{\arcsin \frac{x}{2}} \quad \lim_{x \rightarrow 1} (5x - 4)^{\frac{x}{10(x-1)}}$$

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$$\lim_{x \rightarrow \frac{\pi}{4}} \frac{\cos 2x}{1 - \operatorname{tg} x} \quad \lim_{x \rightarrow 0} \frac{x + \ln(1+x)}{e^{3x} - 1}$$

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$$y = \sqrt{x^2 + 4} \cdot \ln(\sin x) \quad y = \frac{5}{\sqrt[3]{x + \ln x}}$$

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$$f(x) = \frac{x^2}{1-x}$$

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$$f(x) = \sqrt[3]{x(1+x)}, \quad [-8; 0]$$

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1. $f(x) = 2x - |x|, g(x) = \frac{1}{x}.$

$f(0), g(-1), f(2a), g(x^2 - 1), f(g(x)), g(f(x)), g(g(x)).$

, ($D(f) \quad f(x) = \frac{\lg(x^2 - 4)}{\sqrt{9 - x^2}}.$

- ($D(f) \quad f(x) = \arcsin \frac{x-1}{x+1}.$

. ($4 \lim_{x \rightarrow 4} \frac{x^2 - 16}{x^2 - 5x + 4}.$

/ ($4 \lim_{x \rightarrow 1} \frac{x^2 + x - 2}{\sqrt{x} - 1}.$

0 ($4 \lim_{x \rightarrow +\infty} \frac{\sqrt{x+2} - \sqrt{x}}{\sqrt{x+1} - \sqrt{x}}.$

1 ($4 \lim_{x \rightarrow 0} \frac{\sin 3x}{\operatorname{tg} 7x}.$

2 ($4 \lim_{x \rightarrow 0} \frac{1 - \cos 4x}{6x^2}.$

3 ($4 \lim_{x \rightarrow \infty} \left(\frac{x+2}{x}\right)^{4x}.$

($4 \lim_{x \rightarrow \pi} \frac{\sin 3x}{\operatorname{tg} 4x}.$

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 $f(x) = \ln(1 + x).$ х,

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$$f(x) = e^{5x}.$$

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$$y = x^3 + x - 5$$

$$y = 4x - 1.$$

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$$4y = \frac{x\sqrt{x+5}}{x}.$$

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$$4y = \sqrt{(1-x)} \arcsin x.$$

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$$4y = (1+x^2) \arctg x.$$

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$$4y = \frac{e^{-x^2}}{x} + \sqrt{1+\sqrt{x}}.$$

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$$4y = tg^2 x + ctg^2 x.$$

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$$4y = \sqrt[3]{\arccos^2(1-\sqrt{x})}.$$

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$$4y = \cos^2 \frac{1+\ln x}{x}.$$

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$$4f(x) = \arctg \sqrt{x^2+1}.$$

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$$4f(x) = \sqrt{\arcsin x}.$$

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$$4f(x) = \sqrt[3]{x} + x \ln x.$$

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$$4 \sin 29^\circ, \sqrt{4.04}.$$

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$$4f(x) = \frac{ax^2+b}{cx}$$

7 , -5b=1, 2, 3; c=1, 2, 3).

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$$4 \int \frac{dx}{\sqrt{1-25x^2}}.$$

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$$4 \int \frac{x^2-2}{2x^2+5} dx.$$

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$$4 \int \frac{\cos x dx}{\sqrt[3]{\sin^5 x}}.$$

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$$4 \int \frac{dx}{1+\sqrt{x+1}}.$$

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$$4 \int \frac{dx}{x^2-2x+10}.$$

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$$4 \int x^2 \sin 3x dx.$$

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$$4 \int x e^{2x} dx.$$

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$$4 \int x \ln x dx.$$

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$$4 \int \frac{\sqrt[3]{\operatorname{arctg} x}}{1+x^2} dx.$$

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$$4 \int \frac{dx}{\sqrt{8+6x-9x^2}}.$$

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$$4 \int \frac{\sin x dx}{\cos^3 x}.$$

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$$4 \int \sin^4 x \cos^3 x dx.$$

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$$4 \int_0^2 (5x^2 - 1) dx.$$

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$$4 \int_0^{\frac{\pi}{2}} \frac{x^2}{1+x^2} dx.$$

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$$4 \int_0^1 \frac{dx}{\sqrt{4-x^2}}.$$

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$$4 \int_0^1 \frac{xdx}{x^4+1}.$$

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$$4 \int_0^e \frac{1+\ln x}{x} dx.$$

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$$4y = 4x - x^2, y = 0.$$

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$$4y = x^2 + 4x, y = x + 4.$$

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$$4y = \sin x, y = 0, x = 0, x = \pi.$$

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Электронные библиотеки и информационные справочные системы:

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