

Funksiya hosilasini toping

1. $y = \sqrt[3]{5x^4 - 2x - 1} + \frac{8}{(x-5)^2}.$
 2. $y = \operatorname{ctg} \frac{1}{x} \cdot \arccos x^4.$
 3. $y = \frac{(2x+5)^3}{e^{\operatorname{tg} x}}.$
 4. $y = (\cos x)^{x^2-4}.$
 5. $y = \frac{\sqrt[4]{(x+3)^3}}{(x-2)^2(x+1)^3}.$
 6. $y = 3^{kx}.$
 7. $x \sin y - y \cos x = 0.$
 8. $\begin{cases} x = t + \sin t, \\ y = t - \cos t. \end{cases}$
 9. $\lim_{x \rightarrow 0} \left(\frac{1}{x} \right)^{\operatorname{tg} x}.$
 10. $y = \frac{x^2 - x - 1}{x^2 - 2x}.$
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1. $y = \frac{3}{(x+2)^5} - \sqrt[3]{5x - 7x^2 - 3}.$
 2. $y = \operatorname{tg} \sqrt{x} \cdot \operatorname{arcctg} 3x^5.$
 3. $y = \frac{e^{\operatorname{tg} 3x}}{4x^2 - 3x + 5}.$
 4. $y = (x^3 + 1)^{\cos x}.$
 5. $y = \frac{(x-2)^4(x+1)^3}{\sqrt{(x+2)^3}}.$
 6. $y = \sin x + \cos 2x.$
 7. $3^{x+y} - xy \ln x = 15.$
 8. $\begin{cases} x = t^5 + 2t, \\ y = t^3 + 8t - 1. \end{cases}$
 9. $\lim_{x \rightarrow \infty} x^{\frac{1}{x}}.$
 10. $y = \frac{1}{1-x^2}.$
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1. $y = \sqrt[3]{(x-7)^5} + \frac{5}{4x^2 + 3x - 5}.$
 2. $y = \operatorname{tg}^3 2x \cdot \arccos 2x^3.$
 3. $y = \frac{e^{\sin 2x}}{(x+5)^4}.$
 4. $y = (\operatorname{arctg} x)^{5x-1}.$
 5. $y = \frac{(x-2)^4 \sqrt{(x-1)^3}}{(x+3)^5}.$
 6. $y = \lg(3x+1).$
 7. $e^{xy} - x^2 + xy^2 = 0.$
 8. $\begin{cases} x = e^{2t}, \\ y = \cos t. \end{cases}$
 9. $\lim_{x \rightarrow \frac{\pi}{2}} \frac{\operatorname{tg} 3x}{\operatorname{tg} 5x}.$
 10. $y = \frac{(x-3)^2}{4(x-1)}.$