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|----|--|----|---|----|---|
| 2 | $\sqrt{\sin \sqrt{x+1} - \sin \sqrt{x-1}};$ | 3 | $2 \operatorname{tg}(3x) - \frac{1}{7x-5}$ | 4 | $\ln\left(\frac{y}{\cos x - \frac{x}{3}}\right)$ |
| 31 | $2 \operatorname{ctg} \frac{\ln \cos x}{\ln(1+x^2)};$ | 32 | $\sqrt{\frac{1 + \sin \sqrt{x-1}}{\cos(12y-4)}}$ | 33 | $\ln\left(\frac{\cos x}{\pi - 2x}\right)$ |
| 34 | $\frac{x - 10 \sin x}{16x \cos(xy) - 2}$ | 35 | $\sqrt{(1 - \operatorname{ctg} x)} + \sin \frac{7x}{x^3 - 15x}$ | 36 | $\sqrt{3^x - 4x + (y - \sqrt{ x })};$ |
| 37 | $\ln\left(\frac{\cos x}{\pi - 2x}\right) + \frac{y}{\cos x - \frac{x}{3}}$ | 38 | $\frac{\ln(x-y)}{x-10}$ | 39 | $\sqrt{(1 + \operatorname{ctg} x)} + \sin \frac{1}{7x-5}$ |
| 40 | $\sqrt{\frac{\cos^2 x}{\sin x} - 4x}$ | 41 | $Y(x) = (x^2 + a) \sin \frac{1}{x};$ | 42 | $\frac{\sqrt{(1 + \operatorname{ctg} x)}}{\sin \frac{1}{7x-5}}$ |

$$5. \frac{3 + e^{y-1}}{1 + x^2 |y - \operatorname{tg} x|};$$

$$6. x - \frac{x^3}{3} + \frac{x^5}{5};$$

$$7. \ln \left| y - \sqrt{|x|} \right| \left(x - \frac{y}{x + \frac{x^2}{4}} \right)$$

$$8. (1 - \operatorname{tg} x)^{\operatorname{ctg} x} + \cos(x - y);$$

$$9. \frac{\ln |\cos x|}{\ln(1 + x^2)};$$

$$10. \left(\frac{x+1}{x-1} \right)^x + 18xy^2;$$

$$11. \left(1 + \frac{1}{x^2} \right)^x - 12x^2 y;$$

$$12. \frac{x^2 - 7x + 10}{x^2 - 8x + 12};$$

$$13. \frac{\cos x}{\pi - 2x} + 16x \cos(xy) - 2;$$

$$14. 2^{-x} - \cos x + \sin(2xy);$$

$$15. 2 \operatorname{ctg}(3x) - \frac{1}{12x^2 + 7x - 5};$$

$$16. |x^2 - x^3| - \frac{7x}{x^3 - 15x};$$

$$17. x \ln x + \frac{y}{\cos x - \frac{x}{3}};$$

$$18. \sin \sqrt{x+1} - \sin \sqrt{x-1};$$

$$19. e^x - \frac{y^2 + 12xy - 3x^2}{18y - 1};$$

$$20. \frac{1 + \sin \sqrt{x+1}}{\cos(12y - 4)};$$

$$21. 2 \operatorname{ctg}(3x) - \frac{\ln \cos x}{\ln(1 + x^2)};$$

$$22. e^x - x - 2 + (1 + x)^x;$$

$$23. 3^x - 4x + (y - \sqrt{|x|});$$

$$24. x - 10 \sin x + |x^4 - x^5|;$$

$$25. x - 10^{\sin x} + \cos(x - y);$$

$$26. \frac{1 + \sin^2(x + y)}{2 + \left| x - \frac{2x}{1 + x^2 y^2} \right|} + x;$$

$$27. \cos^2 \left(\sin \frac{1}{z} \right);$$

$$28. \frac{\cos^2 x}{\sin x} - xyz + \frac{ax^2 + bx + c}{dx^3 - f}.$$