1. $y = x\arcsin\frac{1}{x} + \ln\left|x + \sqrt{x^2 - 1}\right|,$ $x > 0.$

2. $y = \ln\left(\cos^2 x + \sqrt{1 + \cos^4 x}\right).$

3. $y = \arccos\frac{1}{\sqrt{1 + 2x^2}},\ x > 0.$

4. $y = \sqrt{1 + 2x} - \ln\left(x + \sqrt{1 + 2x}\right).$

5. $y = \ln\left(x + \sqrt{1 + x^2}\right) - \sqrt{1 + x^2}\,\mathrm{arctg}x.$

6. $y = \frac{\ln|x|}{1 + x^2} - \frac{1}{2}\ln\frac{x^2}{1 + x^2}.$

7. $y = \ln\left(e^x + \sqrt{e^{2x} - 1}\right) + \arcsin e^{-x}.$

8. $y = x\sqrt{4 - x^2} + 4\arcsin\frac{x}{2}.$

9. $y = \ln\mathrm{tg}\frac{x}{2} - \frac{x}{\sin x}.$

10. $y = 2x + \ln\left|\sin x + 2\cos x\right|.$

11. $y = \sqrt{\mathrm{ctg}x} - \sqrt{\mathrm{tg}^3\frac{x}{3}}.$

12. $y = 2x + \ln\left|\sin x + 2\cos x\right|.$

13. $y = \mathrm{arcth}\frac{x^2 - 1}{x}.$

14. $y = \ln\left|x^2 - 1\right| - \frac{1}{x^2 - 1}.$

15. $y = \mathrm{arctg}\left(\mathrm{tg}\frac{x}{2} + 1\right).$

16. $y = \ln\left|2x + 2\sqrt{x^2 + x} + 1\right|.$

17. $y = e^x(\cos 2x + 2\sin 2x).$

18. $y = x(\sin\ln x - \cos\ln x).$

19. $y = \sqrt{3 + x^2} - x\ln\left|x + \sqrt{3 + x^2}\right|.$

20. $y = \arccos\frac{1}{\sqrt{1 + 2x^2}},\ x > 0.$

21. $y = \arccos\frac{x^2 - 1}{x^2\sqrt{2}}.$

22. $y = \mathrm{tg}\left(2\arccos\sqrt{1 - x^2}\right),\ x > 0.$

23. $y = \sqrt{x} - (1 + x)\mathrm{arctg}\sqrt{x}$

24. $y = \cos x\ln\mathrm{tg}x - \ln\mathrm{tg}\frac{x}{2}.$

25. $y = x^2\mathrm{arctg}\sqrt{x^2 - 1} - \sqrt{x^2 - 1}$

26. $y = \frac{2x + 5}{13(3x + 1)}.$

27. $y = \log_3(x + 5).$

28. $y = 3^{2x+5}.$

29. $y = \frac{x}{x + 1}.$

30. $y = \frac{2x + 5}{13(3x + 1)}.$