

Quyidagi formulaning chinlik to'plamini tuzing:

$$A(x) \wedge B(x) \rightarrow C(x)$$

topshiriq. Ushbu formula quyidagi predikatlar asosida berilgan:

1. $A(x): 3 + 4x \geq 5; B(x): 0,25^x \geq 0,5^{4x-8}; C(x): \sin^2 x + \cos^2 x = 1;$
2. $A(x): 2x - 3(x-1) > -1; B(x): 2^{\sqrt{x}-1}(4x^2 - 4x + 1) > 0;$
 $C(x): \sin^2 x - \frac{5}{2}\sin x + 1 < 1;$
3. $A(x): (x+1)^2 > (x+2)^2; B(x): \left(\sqrt{6}\right)^x \leq \frac{1}{36}; C(x): 2\sin 2x \geq \operatorname{ctg} \frac{\pi}{4};$
4. $A(x): 7x + 3 \geq 9x - 1; B(x): \left(\frac{1}{2}\right)^{20-2x} > 1, C(x): \sin x \cos x \geq \frac{\sqrt{2}}{4};$
5. $A(x): 7x + 3 \geq 9x - 1; B(x): 2^{3-6x} > 1, C(x): \sin 5x \cos 4x + \cos 5x \sin 4x > \frac{1}{2};$
6. $A(x): 20x - 3x \geq 4x - 15; B(x): \log_{\frac{1}{\sqrt{2}}} \frac{4x-1}{4x+8} < 0,$

$$C(x): 1 - 2\sin 4x < \cos^2 4x;$$

7. $A(x): x^2 + x + 1 \geq 0; B(x): \log_{x-1}(4x+5) < 0; C(x): \sin 4x > -\frac{\sqrt{3}}{2};$
8. $A(x): 3x - 4(x-7) \geq 16 - 3x; B(x): \left(\frac{1}{2}\right)^{20-2x} > 1; C(x): 2\sin x \geq \sqrt{2};$
9. $A(x): 2 + 3(x-1) \leq 4x + 3; B(x): \left(\frac{1}{2}\right)^{2x-1} > \frac{1}{16}, C(x): \cos^2 x - \frac{5}{2}\cos x + 1 > 0;$
10. $A(x): 5x - 2 \geq 2x + 1; B(x): \left(\frac{1}{2}\right)^{20-2x} > 1, C(x): \cos^2 x - \frac{5}{2}\cos x + 1 \leq 0;$
11. $A(x): 2x + 3 \leq 18 - 3x; B(x): 3^{8x} - 4 \cdot 3^{4x} \leq -3, C(x): \cos^2 x < \frac{\sqrt{2}}{2} + \sin^2 x;$
12. $A(x): 4(x-3) - 3 > 8x + 1; B(x): 3^{\frac{1}{x+1}} > 9, C(x): 1 - 2\cos 2x > \sin^2 2x;$
13. $A(x): 2 + x(x+3) \leq (x+2)^2 + 5; B(x): (0,7)^{2+4x+2n} > (0,7)^{72}, C(x): \cos 2x \leq -\frac{1}{2};$
14. $A(x): 5x - 2 \geq 2x + 1; B(x): 9^{-x} - 28 \cdot 3^{-x-1} + 3 < 0,$
 $C(x): \sin^2 3x - \cos^2 3x \leq -\frac{\sqrt{3}}{2};$
15. $A(x): 2x^2 - 5x + 2 > 0, B(x): 3^{|x|+2} \leq 81, C(x): \sin 4x > \frac{1}{2};$
16. $A(x): x - \frac{2x-8}{5} \geq 1 - 2x, B(x): 0,5^{x^2-4} > 0,5^{3x}, C(x): 4\cos^2 x - 3 \geq 0;$

17. $A(x): (x^2 + 5x + 4)(x^2 + 5x + 6) \geq 120$, $B(x): 5^{\frac{1}{x}} + 5^{\frac{1}{x}+2} > 130$,
 $C(x): \cos 5x \cos 4x + \sin 5x \sin 4x < \frac{\sqrt{3}}{2}$;
18. $A(x): (x + \frac{1}{x})^2 - 2(x + \frac{1}{x}) - 3 \geq 0$, $B(x): 3^{\frac{1}{x}} + 3^{\frac{1}{x}+3} > 84$, $C(x): -\frac{2}{\sqrt{3}} \cos x > 0$;
19. $A(x): 1 + \frac{2x^2 - 5x + 3}{(10x - 5)(x - 1)} < 0$, $B(x): 4^x - 5 \cdot 3^{x+1} + 16 \leq 0$, $C(x): \sin x < \cos x$;
20. $A(x): 2 + \frac{x^2 + 1}{x} + \frac{x}{x^2 + 1} \leq -2,5$, $B(x): \frac{1}{8} 2^{4x-2} > (\sqrt{2})^{10}$, $C(x): \operatorname{tg}(x + \frac{\pi}{4}) \geq 1$;
21. $A(x): \frac{2}{3-x} + \frac{1}{2} > \frac{6}{x(3-x)}$, $B(x): 3^{3x-2} + 3^{3x+1} - 3^{3x} < 57$, $C(x): \sin 2x < \cos 2x$;
22. $A(x): \frac{2}{x-3} \leq \frac{x+5}{x^2-9}$, $B(x): 3^{x+2} + 3^{x+3} \leq 972$, $C(x): 2^{\frac{1}{2}} \leq 2^{\sin x}$;
23. $A(x): x^4 - (\sqrt{5} + \sqrt{3})x^2 + \sqrt{15} < 0$, $B(x): \log_{0,5}(x+5)^4 > \log_{0,5}(3x-1)^4$,
 $C(x): \cos(\sin x) < 0$;
24. $A(x): \frac{3x^2 + 8x - 3}{x+3} \geq x^2 - x + 2$, $B(x): \log_{\frac{1}{\sqrt{2}}} \frac{4x-1}{4x+8} < 0$, $C(x): \sin x > \sqrt{3} \cos x$;
25. $A(x): \frac{x+8}{3} > x - \frac{x-3}{x}$, $B(x): \log_{\frac{1}{\sqrt{3}}}(x-5) + 2 \log_{\sqrt{3}}(x-5) < 4$,
 $C(x): \sqrt{\cos^2 x - \cos x} + \frac{1}{4} \geq \frac{1}{2}$;