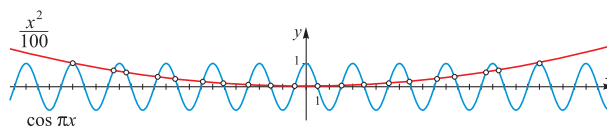


Zadatak 21. Koliko rješenja imaju jednačbe:

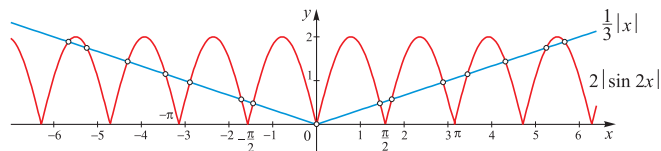
- 1) $\cos \pi x = \frac{x^2}{100}$;
- 2) $\frac{1}{3}|x| = 2|\sin 2x|$;
- 3) $|\log_{\frac{1}{2}} x| = 2|\sin 2x|$;
- 4) $|\log_{\frac{1}{2}} |x|| = |\sin \pi x|$;
- 5) $\cos \pi x = -\frac{1}{4}|x|$;
- 6) $2^{1-|x|} = \frac{1}{3}|4x^2 - 9|$;
- 7) $||x| - 1| = 2^{|x|}$;
- 8) $\log_2 \frac{|x|}{4} = \sin \pi|x|$;
- 9) $2^{1-|x|} = |2 - |x||$;
- 10) $2^{-\operatorname{sgn} x} = \cos \frac{x}{2}$?

Rješenje.

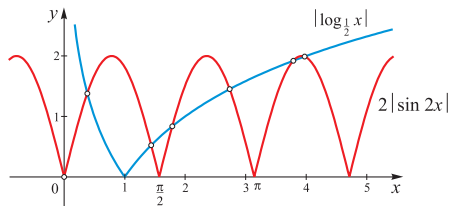
1) 20;



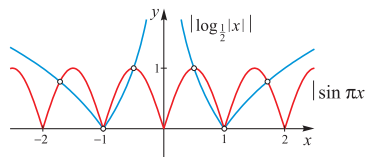
2) 15;



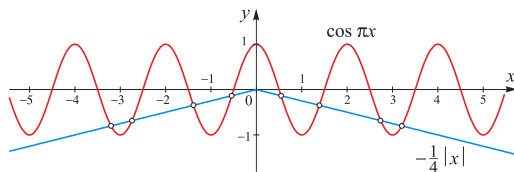
3) 6;



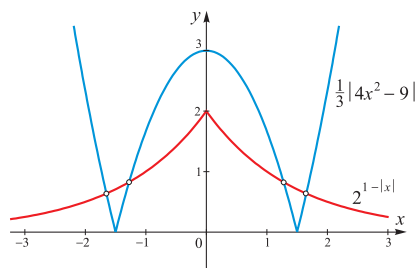
4) 6;



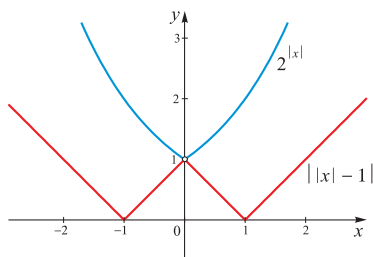
5) 8;



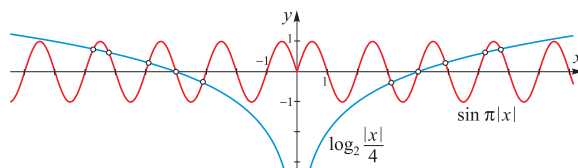
6) 4;



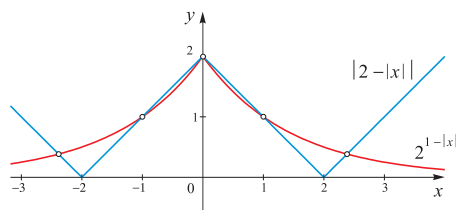
7) 1;



8) 10;



9) 5;



10) beskonačno.

