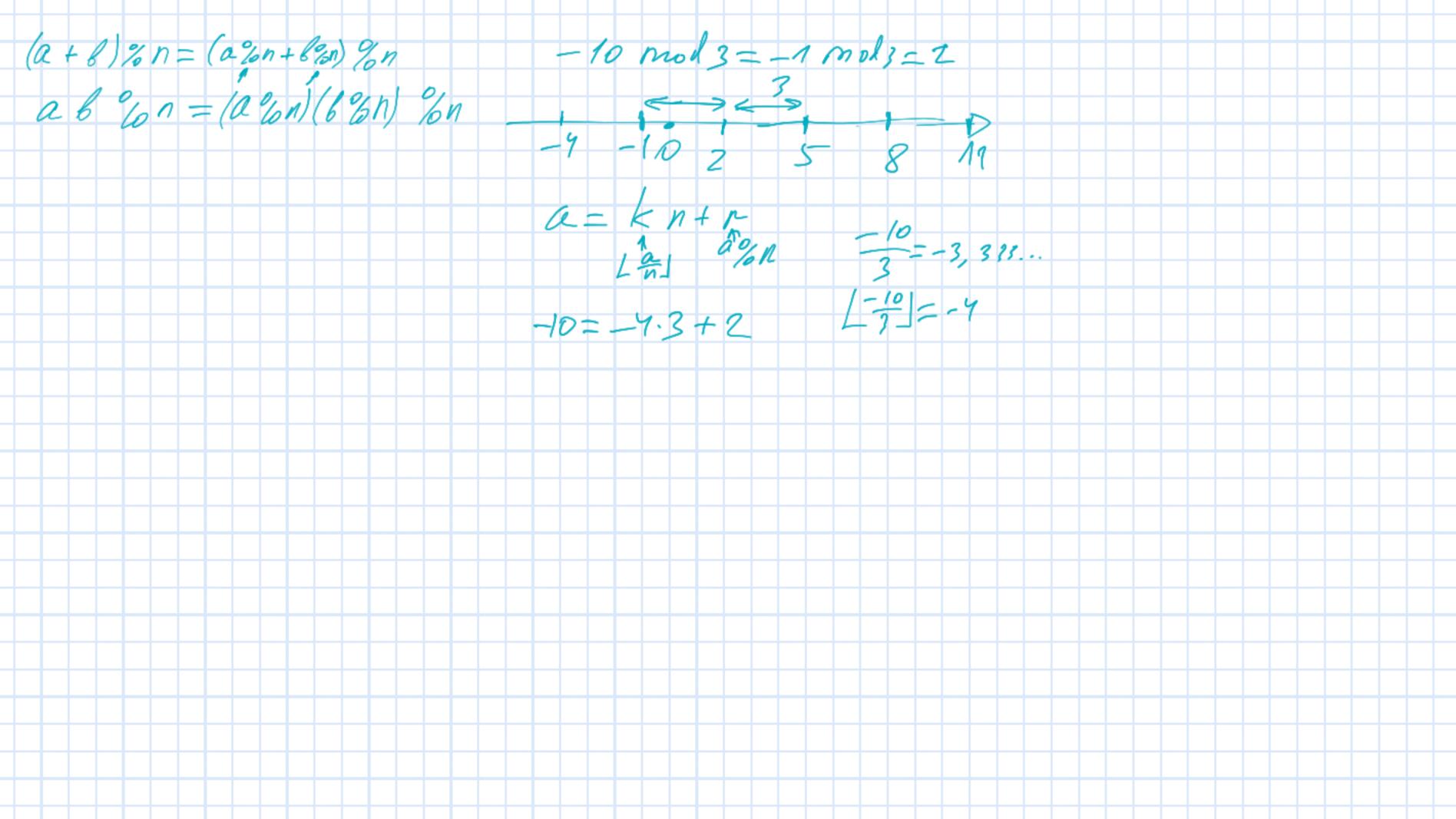
$7 = (a^2)^{n/2}$  eun  $n = (a^2)^{10/2}$  a, eun  $n = (a^2)^{10/2}$  alune 10 : 10 18 Tourpo: log 10 = log 1000 = 6 log 1000 260 Jemen Paroc Gera Hantu be npocore ruch mentine n. (2) (3) 4 (2.6. 78 9 10 D... n 7.17,317, 4.17, ..., 16.17, 17.17 Cog log 10 18 = Cg 60 = 8

Ble ucho 1306 1 662050 pue GCD (10000,2)=GCD (998,2=GCD (9996,2)=... GCD(a, b)= GCD(a-6,6) GCD(12, 15) = GCD(3, 12) = GCD(3,3) = GCD(6,3) = GCD(3,3) = GCD(0,3) = GCD(Zy dunce Cyren 2 Rowerob. rucin Pustina 224  $f(n) \sim \left(\frac{1+\sqrt{57}}{2}\right)^n$ 30 10 TOE CORE MUR

Моденная аривнечика. Def a= 6 (mod n) = a mod n = 6 mod n a mod n = p-bsapre octation of Decembe a = 6 (modn) (a-6):n ME[0; 1-1]  $\frac{\partial}{\partial a} = n \cdot k_a + r$   $a - k_a + r$ -10 mad 3 = -1 mod 3 = 2 int Mod (inta, int 6) { if (6<0)2-7  $a = nk_a + l_a \quad a - b = n(k_a - k_g) + (k_a - k_g) + (k$ if (aco) 2 = 6 (mod n)  $C = d \pmod{n}$ return a; atc = 6+cl (mod a) (a+c)-(6+d)=(a-b)+(c-d) n Q-C = 6-d(modn)  $a c = 6d \pmod{n} \quad ac - 6d = ac - c6 + c6 - 6d = c(a-6) + 6(c-d) = c$ 



1/2 (marker reopena Pepera)  $p-\pi_{pospe}$ : a/n pospe:  $a'=1 \pmod{n}$ a - a.6" 6': 6.6'=1 (md) a; a; = 1 a = a.6 $a = a_{1}6^{-1}.6_{1}$  $\frac{\alpha}{7} = \alpha \cdot 6^{n-2} \pmod{n}$ 

