nder, October 3, 2021 4:03 PM Bai hantin A 1, det (A)

D Tinh A 1 Trag thirte tinh toan this up to dug LU hone PLU se tot hon  $\begin{bmatrix} a_{M} & a_{n} & a_{n3} \\ a_{1n} & a_{n2} & a_{23} \\ a_{3n} & a_{3n} & a_{3n} \\ a$ thin the gap of lan gian = LU. Laptrinh: Mother X= A\b (nfråde give Ax= b hig LU)
Rythan X= linalg. She (Asb) (bour has vist code x = dot (inv (A), b) hay x = inv (A) \* b set b; - diein). 2) Tinh det (A) thai trien Laplace det (A) \_> complexity > n! . Chi can n= 20 > 20!~ 2.4.158 3 vsi 1 maytich thickien 10° flogs/sec > 76 nam det (A) = det (PLU) = det (P). det (L). det (U)

= 1. II un > N flops

Vierc Kinh det (A) + fon what te thrice loven p/Han PLU = 2ns flops