19,05EC (9) (4/5) EC (9) ECE 447 Thu Oct 12 today / this week: PX HW I due tomorrow & Ls any Cis?
I tutorial: pick up from last time · given transfer function (g(s) determine y(t) when u(t) = sin(t) 1º. when $u = e^{st}$, $y = (q(s)e^{st}$, [we know g(t) = A sin(wt + &) if u(t) = sin(wt)] 19(s) / 29(s) Q: what if im(s) 70? what does re(t) = est mean? like, physically? 2° sin(wt) = 1 (eiwt -eiwt)
Euleis formula 3°. $u(t) = \sin(\omega t) = u_1(t) + u_2(t)$ $v_3(t) = y_1(t) + y_2(t)$ where y = (q(iw) u, , y2 = (q(-iw) u2

np. all close (y(t)) is True imaginary part of