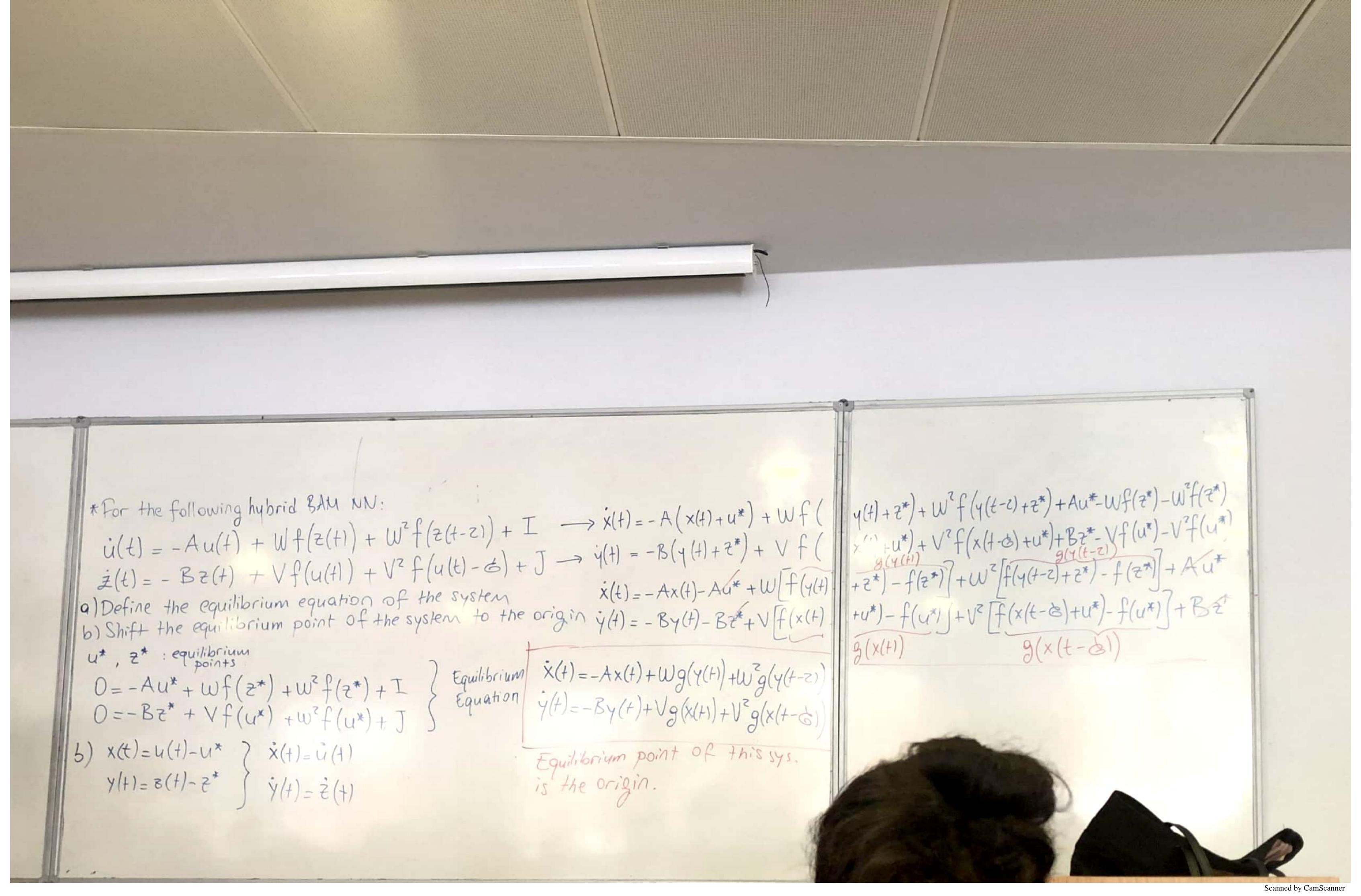


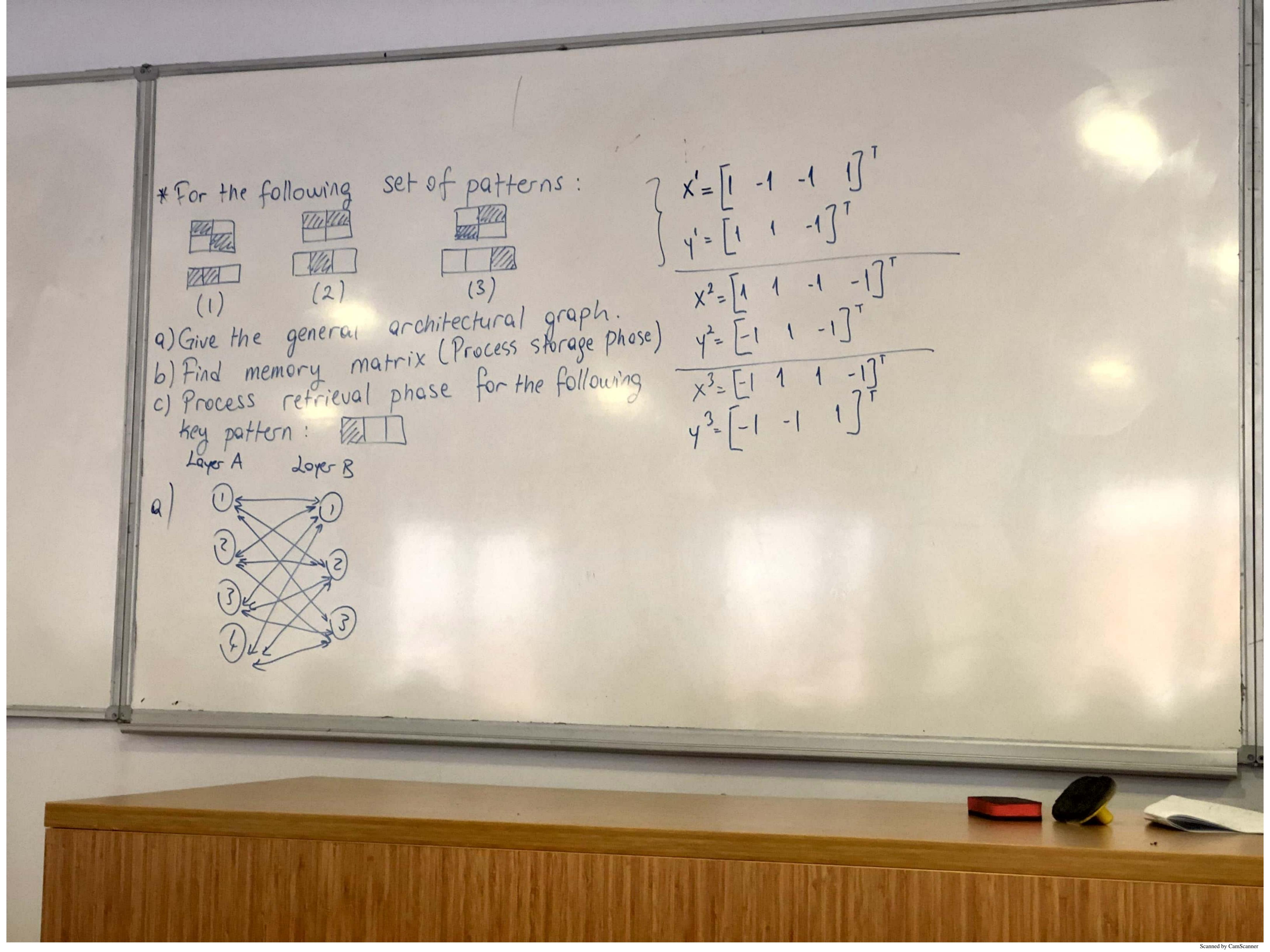
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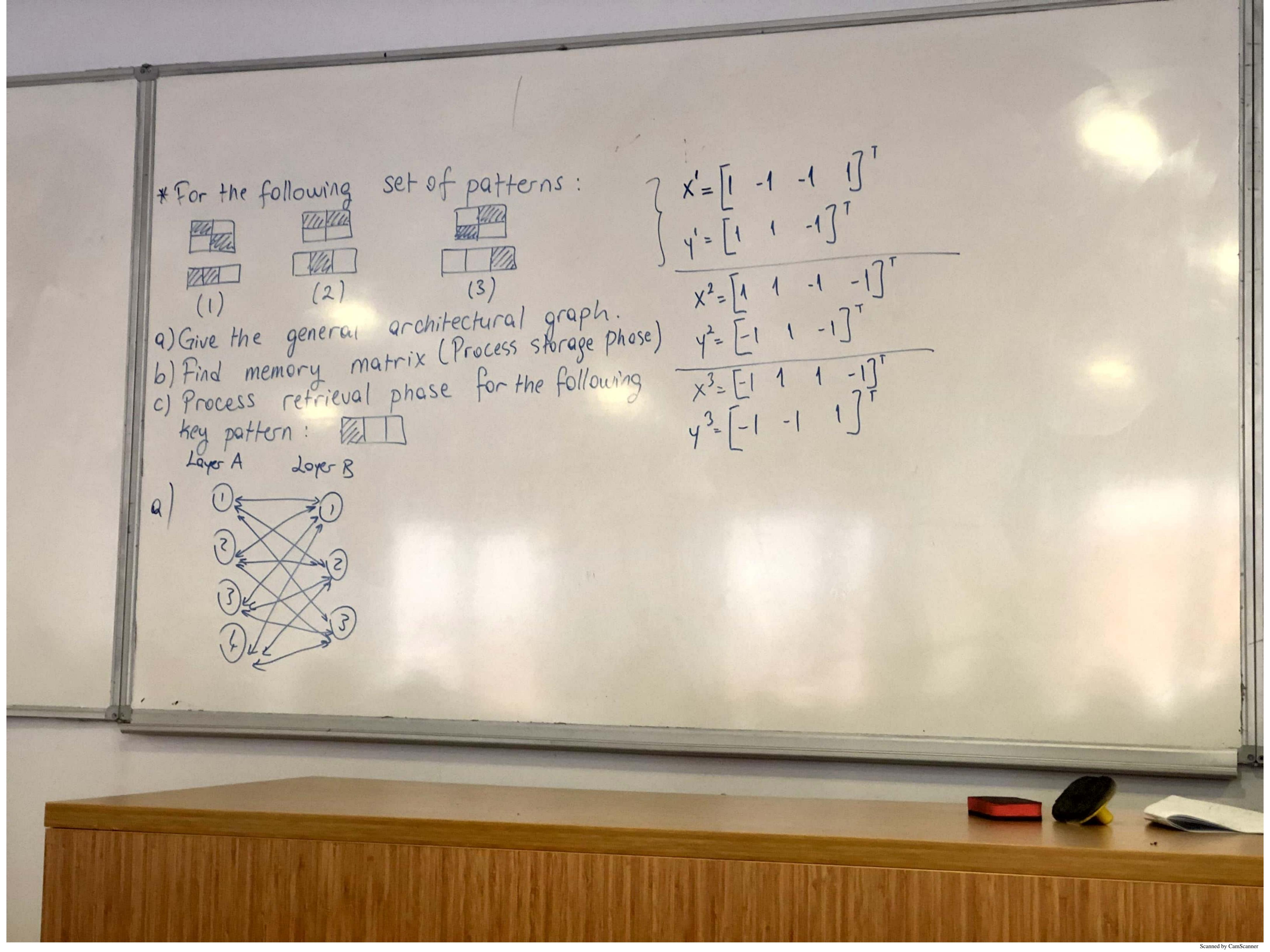
For the following hybrid BAM NN: $i(t) = -Au(t) + Wf(z(t)) + W^{2}f(z(t-z)) + I$ $\dot{z}(t) = -Bz(t) + Vf(u(t)) + V^{2}f(u(t)-b) + J$ a) Define the equilitium equation of the system (b) Shift the equilibrium point of the system to the origin , 2 : equilibrium Equilibrium $0 = -Au^* + Wf(z^*) + W^2f(z^*) + I$ Equation 0=-Bz* + Vf(u*) +w2f(u*)+J (b) x(t)=u(+)-u* y(+)= z(+)-2*

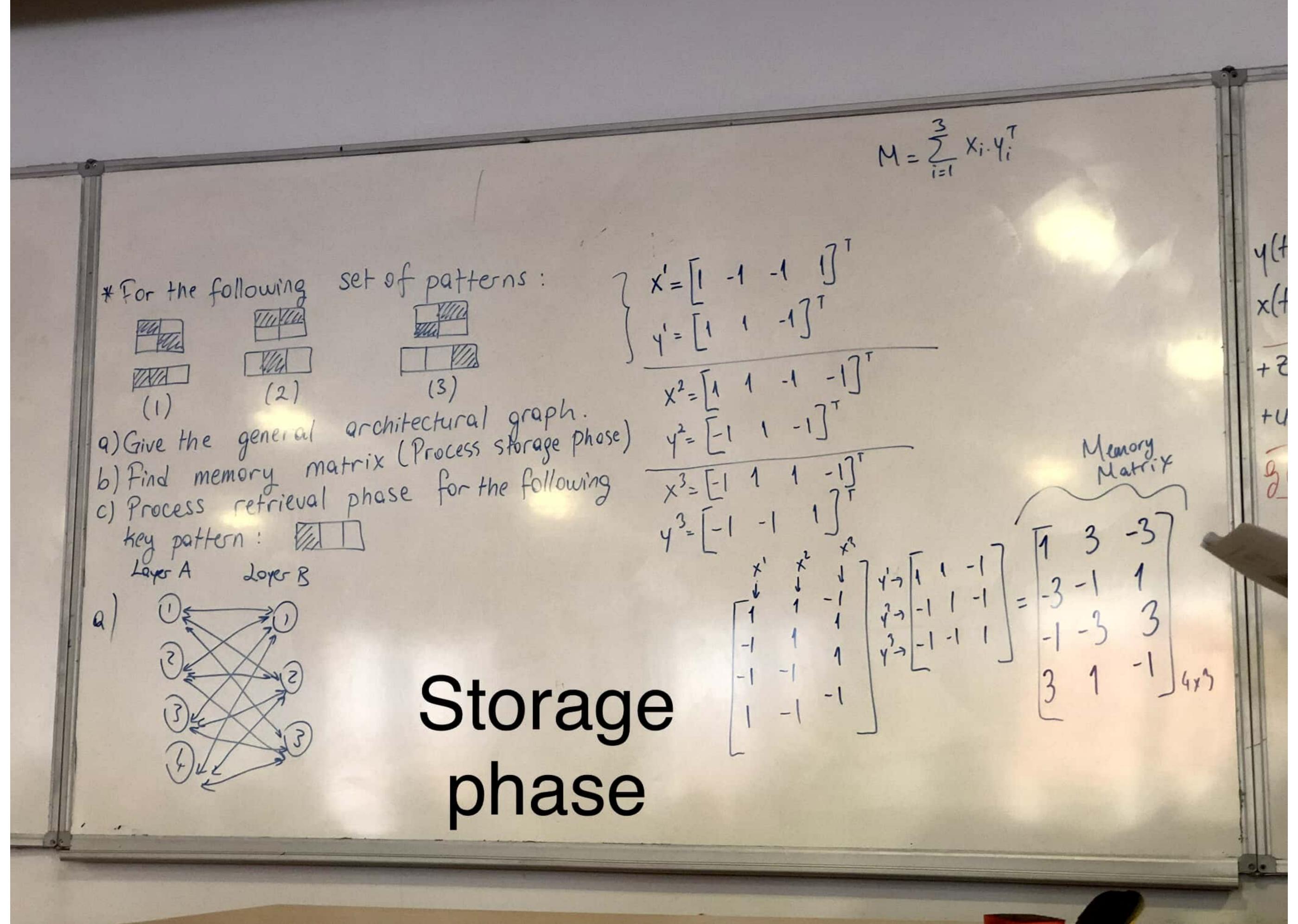
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 $\dot{y}(t) = -B(\dot{y}(t) + z^*) + Vf(| x(\dot{y}, u^*) + V^2f(x(t-3) + u^*) + Bz^* - Vf(u^*) - V^2f(u^*)$ $\dot{x}(t) = -Ax(t) - Au^* + W[f(\dot{y}(t))] + z^*) - f(z^*)] + W^2[f(\dot{y}(t-2) + z^*) - f(z^*)] + Au^*$ (u(t)-6)+J if (x(+) = -8y(+)-B2*+V[f(x(+) | +u*)-f(u*)]+V^[f(x(+-&)+u*)-f(u*)]+B2* $\dot{x}(t) = -Ax(t) + Wg(y(t)) + Wg(y(t-z))$ 4(+)=-By(+)+Vg(x(+1)+V2g(x(+-6) Equilibrium point of this sys. is the origin.

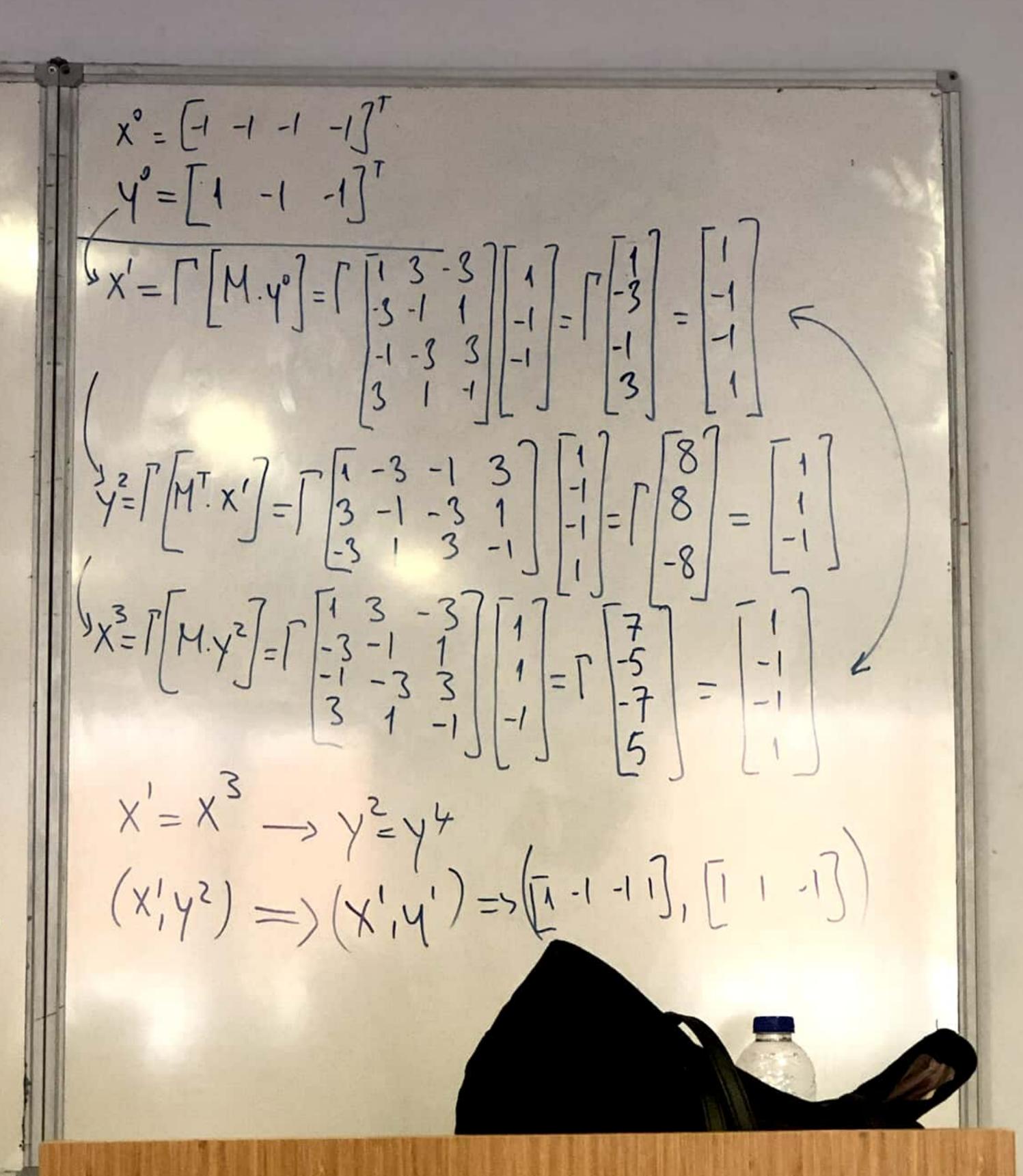








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Retrieval Phase