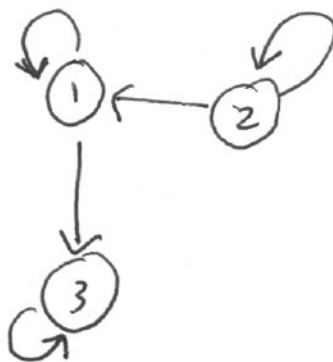
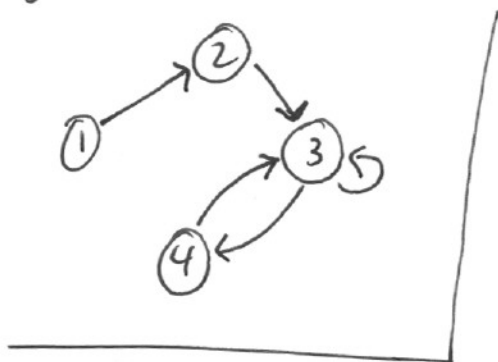


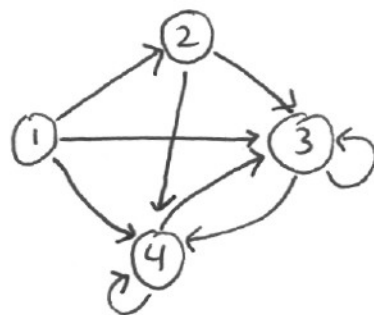
3. Digraph of A



11. Digraph of R



Digraph of R^∞



Explanation for extra edges in digraph of R^∞ :

$1R^\infty 3$ since $1R2, 2R3$

$1R^\infty 4$ since $1R2, 2R3, 3R4$

$2R^\infty 4$ since $2R3, 3R4$

$4R^\infty 4$ since $4R3, 3R4$

Handwritten signature