

Chris Hayduk Lecture 14 - Exercise A

10/20

1.  $1 \mapsto r \mapsto r^2 \mapsto r^3 \mapsto 1$

$$s \mapsto sr^3 \mapsto sr^2 \mapsto sr \mapsto s$$

Yields,

$$1 \mapsto 2 \mapsto 3 \mapsto 4 \mapsto 1$$

$$5 \mapsto 8 \mapsto 7 \mapsto 6 \mapsto 5$$

Similar for  $s$

2a.