

## Kinetics Exercise

### An irreversible reaction network:

In a liquid mixture, A and B react to form C; C also reacts with A to form D. Write out the two reactions (in arrow form). Use  $k_1$  and  $k_2$  for the rate constant names.

[Rxn 1]

[Rxn 2]

These two reactions are elementary. Can you say why?

Write the kinetic rate expression for each component

$r_A =$

$r_B =$

$r_C =$

$r_D =$