

*You must show your work to get full credit.*

1. Let  $A = \{1, 2, 3, 4\}$   $A = \{1, 2, 3, 4\}$ .

(a) Write out the relation,  $R$ , that expresses  $>$  on  $A$ .

*Solution.*

$$R = \{(2, 1), (3, 1), (3, 2), (4, 1), (4, 2), (4, 3)\}$$

□

(b) Illustrate  $R$  with a diagram.

