

Ch. 6 continued, Ch. 9.2

Example: $U = \{f, 7, 4, 1, q, 5\}$
 $A = \{4, 5, q\}$
 $B = \{7, q\}$

Find: $B \times B$

$A - B$

$|\overline{B - A}|$

$\mathcal{P}(B)$

$|\mathcal{P}(B) \times A|$

Example: How many ways can you order a pizza? Given: there are

- Problem ①
- 3 kinds of crust (regular, thin, cheese-stuffed)
 - 2 sizes (large, small)
 - 4 toppings (but you can only pick 1, and you must pick 1).
- Problem ②
- Same, but: cheese-stuffed crust only available in large size.

We'll make a possibility (decision) tree for each.