

### Hint for Problem 186

Consider the example with  $n = 2$ . Then we have two variables,  $x_1$  and  $x_2$ . Forgetting about  $x_2$ , what sum says we either take  $x_1$  or we don't? Forgetting about  $x_1$ , what sum says we either take  $x_2$  or we don't? Now what product says we either take  $x_1$  or we don't *and* we either take  $x_2$  or we don't?