* Important theorem in factoring and multiplying out:

$$(X+Y)(X'+Z) = XZ + X'Y$$

* Another use for the theorem above:

* Also works for two terms:

* Important theorems to watch out for

$$X = \lambda \longrightarrow X \lambda + \chi, \lambda$$

* In order to simplify an expression which contains AND and OR as well as exclusive OR and equivalence, it is usually desirable to eliminate & and (=) operation F = (A'B = C) + (B + AC') F: BAC+B(A+C)+ABCIA + (A+B') C + A'BC F-B(A+C+A'C)+C'(B'A+A+B) f = B(A+C) + ('(A+B') * Important: $(XY, +X, \lambda,)$ - $X\lambda + X, \lambda$