$$x + yz = (x+y)(x+z)$$
$$= xx + xy + xz + yz$$
$$= x + xy + xz + yz$$
$$= x(1+y+z) + yz$$
$$= x + yz$$

$$(x+y)(x+\bar{y}) = x$$
$$xx + xy + x\bar{y} + y\bar{y} =$$
$$x + xy + x\bar{y} =$$
$$x(1+y+\bar{y}) =$$
$$x =$$

$$(x_1 + x_3 + x_4)(x_1 + \bar{x}_2 + x_3)(x_1 + \bar{x}_2 + \bar{x}_3 + x_4)$$

$$\uparrow$$

$$(x_1 + \bar{x}_2 + x_3 + (x_4 \bar{x}_4))$$

$$(x_1 + \bar{x}_2 + x_3 + x_4) \cdot (x_1 + \bar{x}_2 + x_3 + \bar{x}_4)$$

$$(x_1 + x_3 + x_4) \cdot (x_1 + \bar{x}_2 + x_3) \cdot (x_1 + \bar{x}_2 + x_4)$$