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$$X = (AB + \bar{A}\bar{B})(B + C) + \overline{\overline{B}C}$$

$$X = (AB\bar{B} + ABC + \underbrace{\bar{A}\bar{B}B}_0 + \bar{A}\bar{B}C + \overline{\overline{B}} + \overline{\overline{C}})$$

~~X =~~

$$X = B(AB + AC + 1) + C(\bar{A}\bar{B} + 1)$$

$$X = B + C$$