$$\psi(n_{1}, n_{2}) = (x > = -8) \times x > = -10$$

$$\psi(n_{1}, n_{2}, n_{3}) = (x > = -8) \wedge (x > = -10) \times x > = -10$$

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$$\psi(n_{1}, n_{2}, n_{3}) = (x > = -8) \wedge \neg(x > = -10) \times x > = -10$$