







Encodes: -4x2

Expression:

$$A_1 = Y_2 + Y_3$$

Circuit

| γ, | L | 7 | \ | Υı | + | 3 = | - A ₀ |
|----------------|---|---|-----------|----|--------------|-----|------------------|
| Y ₂ | | 1 | | | | | |
| | | | \supset | Y2 | + Y <u>:</u> | 3 Z | A۱ |
| 1/3 | J | | | | | | |

Multiplexes

Expression:

Circuit:

Touth table

| y_3 | Y_{z} | λ' | Y0 | Ą۱ | Ą٥ |
|-------|---------|------------|----|----|----|
| O | 6 | 0 | (| 0 | 0 |
| O | 0 | 1 | 0 | 0 | 1 |
| 0 | l | 0 | υ | (| 0 |
| l | 0 | 0 | ٥ | l | l |
| | | | | | |

Truth table

| Ъз | T^{7} | ĻĻ | To | \mathcal{I} | <u>ر</u> | y | |
|----|---------|----|----|---------------|----------|----------|--|
| 7 | | , | 1 | 0 | 0 | I | |
| | | ı | | 0 | (| I, I2 | |
| | ١ | | | (| 0 | I_2 | |
| ı | | | | l | ١ | T_3 | |
| | | | | | | 3 | |



























