

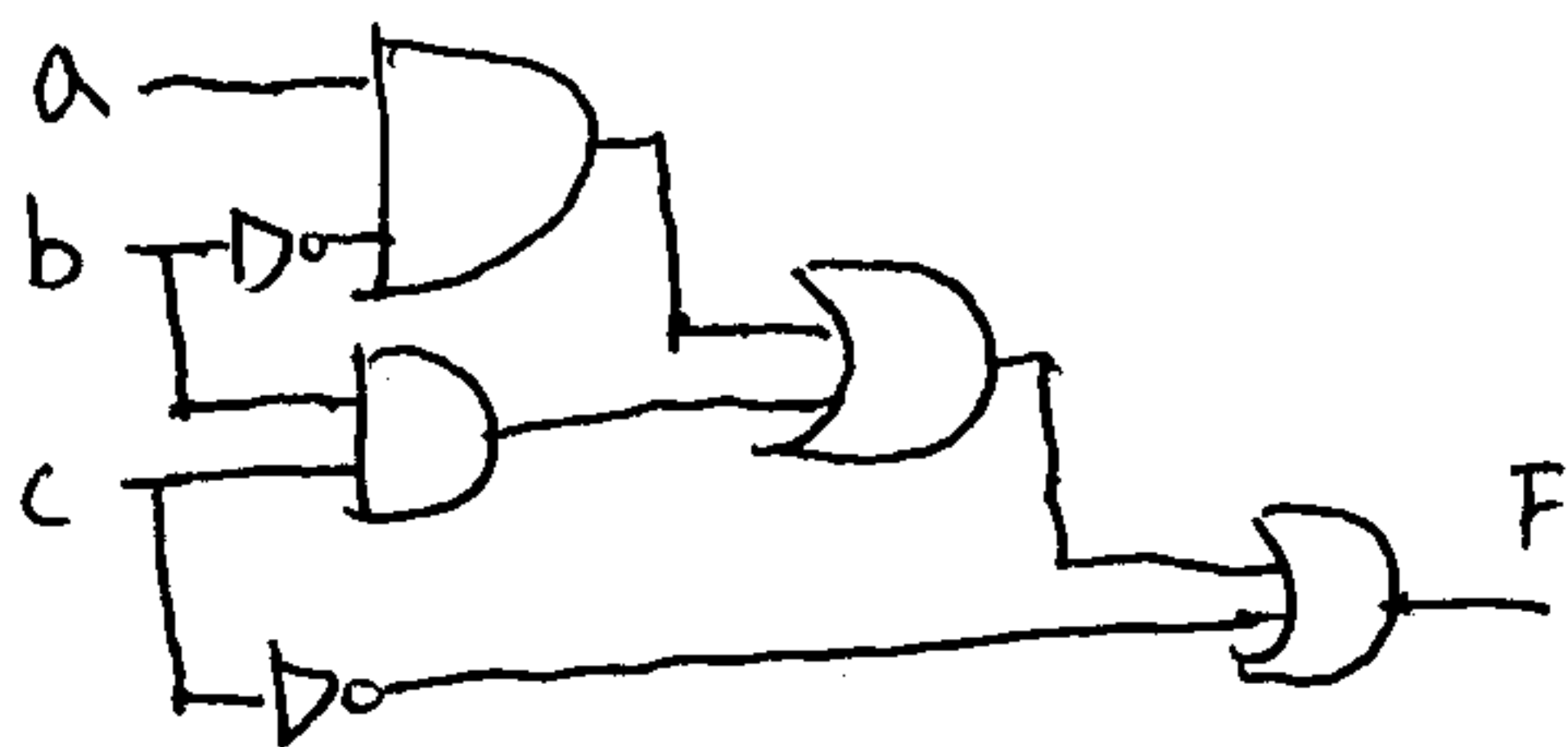
2.9 (a) OR (b) AND (c) NOT

2.11 (a) $c=1 \therefore 1$ (d) $d=1 \therefore 1$

2.13 (b) $a=0 \therefore 0$ (c) $b, c, d=0 \therefore 0$

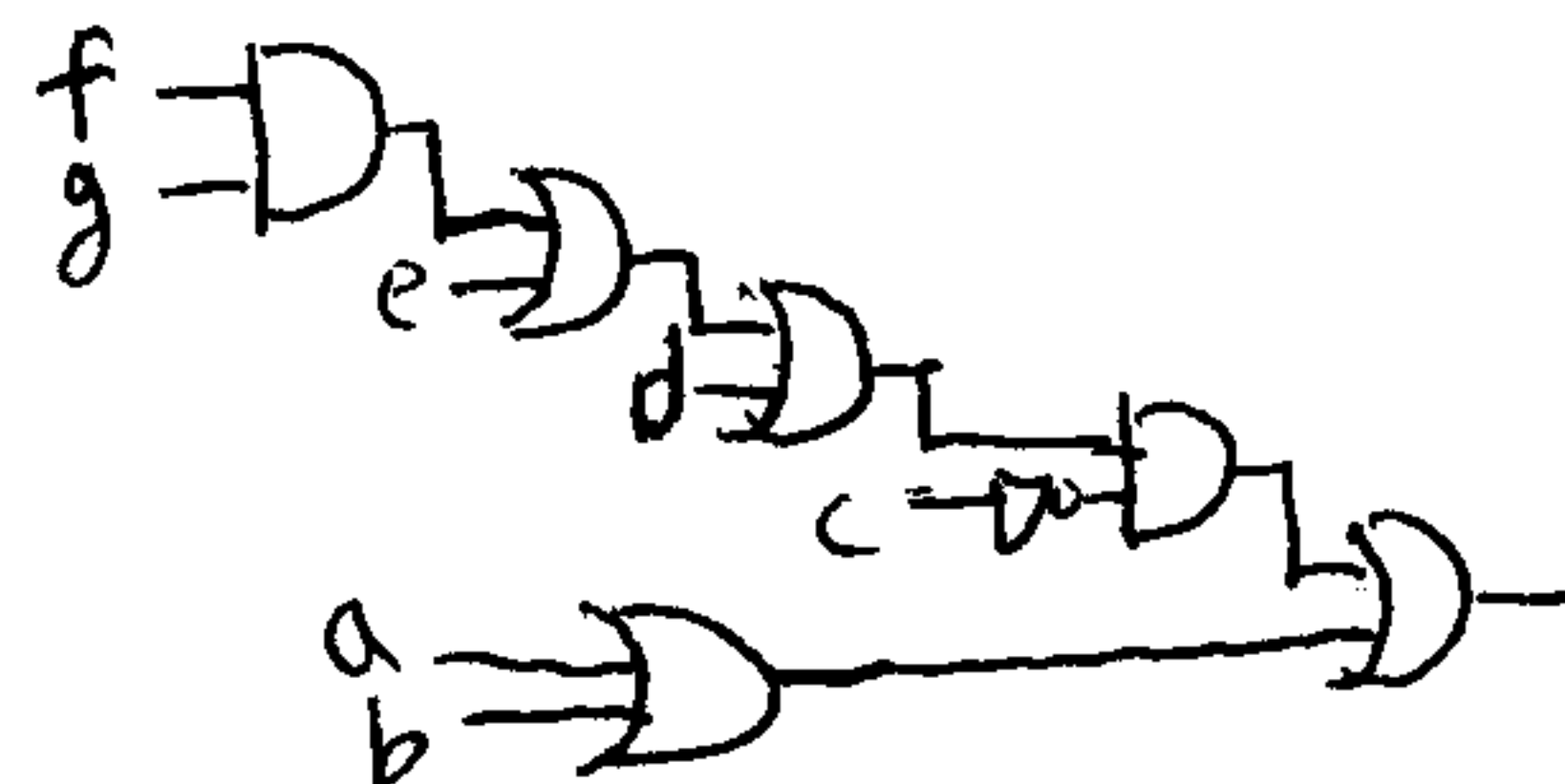
2.16

(a)

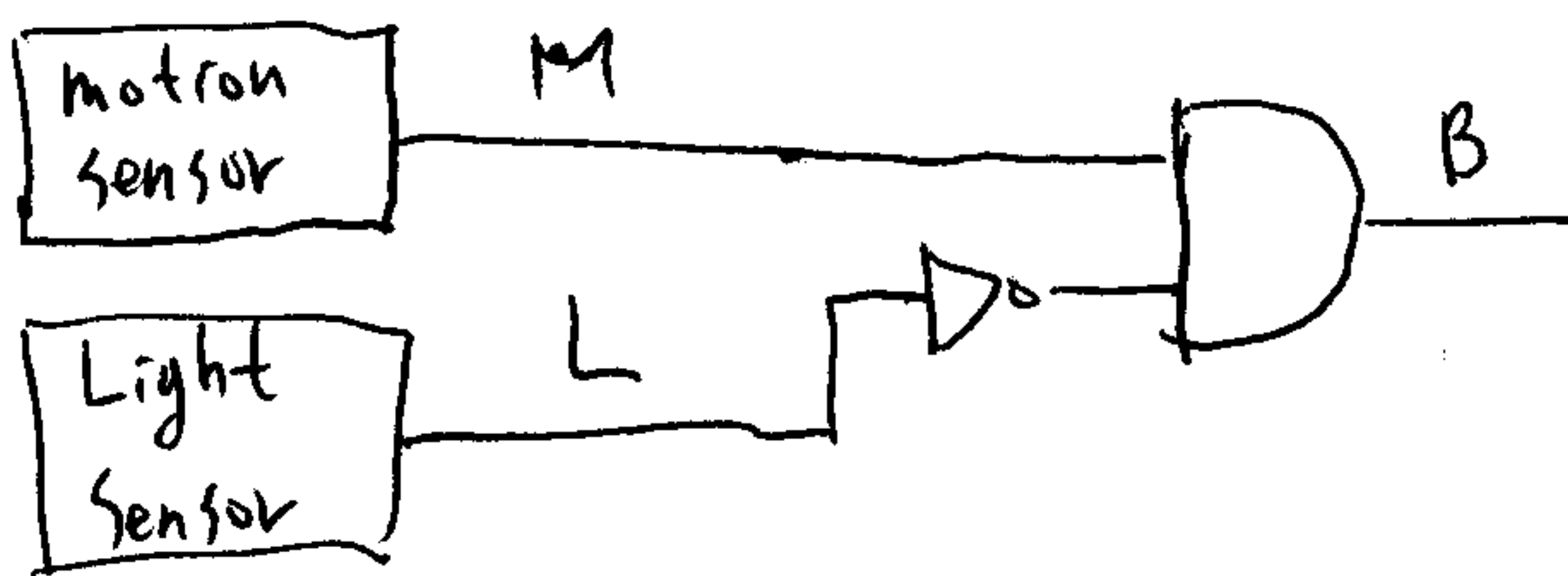


2.18

(c)



2.19



2.21

$$F = M + M'L$$

2.24

(a) $T \cdot H' + T'H$ (b) $(H'T + T'H)' = (T' + H)(T + H') = TH + T'H'$

2.27

$$a'b'c + a'bd' + ab'c + abc + adc = a'bc + a'bd + ab'c + abc + adc$$

2.29

$$(ac' + abd' + acd)' = (a' + c)(a' + b' + d)(a' + c' + d')$$

$$= a' + c(b' + d)(c' + d')$$

$$= a' + (cb' + cd)(c' + d')$$

$$= a' + (cb'c' + cb'd' + cdc' + cdd')$$

$$= a' + cb'd'$$