



Separate outputs are:

TOTAL COST

A: ab+c+d.

B: 6+6

c: c+d+ab

D: ab+c+d=A.

 $F: a+b+\overline{c}\overline{d} = a\overline{b}+b+\overline{c}\overline{d}$

YOR G: a+C

For total circuit, we can use tupo AND Gates for a b and

cd and ab

since, two of them are already equal.

6 OR Grates one enough for final outputs.

Total cost = @ Gates [.: NOT Grates do not have any cost].

