2.5,3,4,5,9,10,11,16,17,21

2.5,3,4,5,9,10,11,16,17,21
5. (1)
$$(A+B)(A+C)(B+C)+AB$$

= $(A+B)(A+C)+AB$
= $AB+AC+BC+AB$

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

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

$$= (\overline{A}B+AC+BC+A\overline{B})$$

(2)
$$\overline{B} + AB + \overline{A} = \overline{AB} + AB$$

(3) $\overline{AB+C}$ $(A+C) = \overline{ABC} (A+C) = (\overline{AC} + \overline{BC})(A+C)$

$$(3) AB+C (A+C)$$

$$= ABC$$

$$(4) \overline{(A+\overline{B}+C)(\overline{A}+\overline{C})} = \overline{A+\overline{B}+C} + \overline{\overline{A}+\overline{C}}$$

$$= AC+\overline{A}B\overline{C}$$

$$= AC + ABC$$

$$4 \stackrel{(1)}{\vdash} = [A+B)C + D]E + B \qquad (1) F = [AB+C)D + E]B$$

$$= F = [AB+C)C + D]E + D \qquad (2) F = AB + (A+C)(C+DE)$$

$$F = [A+B)C+D]E+B$$

$$(2) P' = (A+B)[Ac+C[D+E)]$$

(2)
$$F' = (A+B)[AC + C(D+E)]$$

 $F = (A+B)[AC + C(D+E)]$
5. 已知函数 F的对偶函数 F' = AB + C D

$$F = (F')' = (A+B)(C$$

$$\overline{F} = \overline{AB} + \overline{CD} + \overline{D}$$

(3)

11

$$9.(1)$$
AB OO OI II F= $\overline{A}C$

$$+i\bar{D}+\bar{B}\bar{C}$$
 $F=\bar{A}C+AB+A\bar{D}$

$$F = (f')' = (A+B)(c+D)(B+c)$$

$$\overline{F} = \overline{AB} + \overline{CD} + \overline{BC}$$