4.(2) 
$$F'=(A+B)\cdot AC + (\overline{C}CD+E)) = AC+BAC+\overline{C}D+\overline{C}E$$

$$= AC+\overline{C}D+\overline{C}E$$

$$F=(\overline{A}+\overline{B})\cdot \overline{AC} + (C(\overline{D}+\overline{E})) = \overline{AC}+\overline{BAC} + \overline{C}D+\overline{C}E$$

$$= \overline{AC}+\overline{C}D+\overline{C}E$$

$$= \overline{AC}+\overline{C}D+\overline{C}E$$

$$= \overline{AC}+\overline{C}D+\overline{C}E$$

$$= \overline{AC}+\overline{C}D+\overline{C}E$$

$$= \overline{AC}+\overline{C}D+\overline{C}E$$

$$= \overline{AC}+\overline{C}D+\overline{AC}D+\overline{AC}D$$

$$= \overline{AC}+\overline{AC}D+\overline{AC}D+\overline{AC}D+\overline{AC}D$$

$$= \overline{AC}+\overline{AC}D+\overline{AC}D+\overline{AC}D+\overline{AC}D+\overline{AC}D$$

$$= \overline{C}D(\overline{A}+\overline{AB})+\overline{AC}D+\overline{AC}D+\overline{AC}D$$

$$= \overline{C}D(\overline{A}+\overline{AB})+\overline{AC}D+\overline{C}D$$

$$= \overline{C}D(\overline{A}+\overline{AB})+\overline{AC}D+\overline{C}D$$

$$= \overline{AC}D+\overline{AC}D+\overline{AC}D+\overline{C}D$$

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$$= \overline{AC}D+\overline{A$$