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$$1. F = \bar{x}yz + \bar{x}\bar{y}z$$

$yz \bar{y}z \bar{y}z yz$

| | |
|-----------|---------------------|
| x | |
| \bar{x} | $\boxed{1} \quad 1$ |

$$F = \bar{x}z$$

$$2. F = xyz + xy\bar{z} + \bar{x}yz + \bar{x}y\bar{z}$$

$yz \bar{y}z \bar{y}z yz$

| | |
|-----------|-------------|
| x | $\boxed{1}$ |
| \bar{x} | $\boxed{1}$ |

$$F = yz + y\bar{z} + xy + \bar{x}y$$

$\Leftrightarrow y$

$$3. F = xy\bar{z} + x\bar{y}z + x\bar{y}\bar{z} + \bar{x}yz + \bar{x}\bar{y}z$$

$yz \bar{y}z \bar{y}z yz$

| | | | | |
|-----------|-------------|-------------|-------------|-------------|
| x | $\boxed{1}$ | $\boxed{1}$ | $\boxed{1}$ | $\boxed{1}$ |
| \bar{x} | $\boxed{1}$ | $\boxed{1}$ | | |

$$F = x\bar{z} + x\bar{y} + \bar{y}z + \bar{x}z$$

$$4. F = xyz + x\bar{y}z + x\bar{y}\bar{z} + \bar{x}yz + \bar{x}y\bar{z} + \bar{x}\bar{y}z$$

$yz \bar{y}z \bar{y}z yz$

| | | | |
|-----------|-------------|-------------|-------------|
| x | $\boxed{1}$ | $\boxed{1}$ | $\boxed{1}$ |
| \bar{x} | $\boxed{1}$ | | $\boxed{1}$ |

$$F = \bar{z}x + x\bar{y} + yz + \bar{y}z + \bar{x}z + \bar{y}x$$

$$= x\bar{y} + \bar{x}y$$

$$5. F = \overline{wxyz} + \overline{wx\bar{y}z} + \overline{wx\bar{y}\bar{z}} + \overline{w\bar{x}yz} + \overline{w\bar{x}\bar{y}z}$$

$$y^2 \bar{y}^2 \bar{y}^2 \bar{y}^2$$

$$\overline{wx} \quad \boxed{1} \quad \boxed{1} \quad 1$$

$$\overline{wx}$$

$$\overline{w\bar{x}}$$

$$\overline{wx} \quad 1 \quad 1$$

$$F = \overline{wxz} + \overline{wx\bar{y}}$$

$$6. F = \overline{wxyz} + \overline{wx\bar{y}z} + \overline{wx\bar{y}\bar{z}} + \overline{w\bar{x}yz} + \overline{w\bar{x}\bar{y}z}$$

$$+ \overline{w\bar{x}\bar{y}z}.$$

$$y^2 \bar{y}^2 \bar{y}^2 \bar{y}^2$$

$$\overline{wx} \quad 1 \quad 1$$

$$\overline{wx}$$

$$\overline{w\bar{x}}$$

$$\overline{wx} \quad \boxed{1} \quad 1$$

$$F = \overline{x\bar{y}z} + \overline{w\bar{x}z}.$$

$$7. F = \overline{wxyz} + \overline{wxy\bar{z}} + \overline{wx\bar{y}z} + \overline{wx\bar{y}\bar{z}} + \overline{w\bar{x}yz}$$

$$+ \overline{w\bar{x}\bar{y}z} + \overline{w\bar{x}\bar{y}\bar{z}} + \overline{w\bar{x}\bar{y}z}$$

$$y^2 \bar{y}^2 \bar{y}^2 \bar{y}^2$$

$$\overline{wx} \quad 1 \quad 1 \quad 1$$

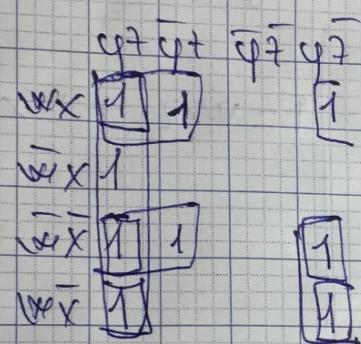
$$\overline{wx}$$

$$\overline{w\bar{x}}$$

$$\overline{wx} \quad 1 \quad 1$$

$$F = \bar{y}^2 + \overline{wxz} + \overline{wx\bar{y}} + \overline{w\bar{x}y}$$

2. ~~F = xy~~



$$\left. \begin{array}{l} F = yz + \bar{w}xz + wxy + \bar{w}\bar{x}z \\ + y\bar{z}\bar{w} + \bar{w}\bar{z}y + \bar{w}\bar{x}y \end{array} \right\}$$