$a = a^x \boldsymbol{e}_x + a^y \boldsymbol{e}_y + a^z \boldsymbol{e}_z$

$b = \boldsymbol{e}_x + \boldsymbol{e}_y + \boldsymbol{e}_z$

$c = c^w \boldsymbol{e}_w + c^x \boldsymbol{e}_x + c^y \boldsymbol{e}_y + c^z \boldsymbol{e}_z$

a reflect in $xy = a^x \boldsymbol{e}_x + a^y \boldsymbol{e}_y - a^z \boldsymbol{e}_z$

a reflect in $yz = -a^x \boldsymbol{e}_x + a^y \boldsymbol{e}_y + a^z \boldsymbol{e}_z$

a reflect in $zx = a^x \boldsymbol{e}_x - a^y \boldsymbol{e}_y + a^z \boldsymbol{e}_z$

a reflect in plane $(x = y) = a^y \boldsymbol{e}_x + a^x \boldsymbol{e}_y + a^z \boldsymbol{e}_z$

b reflect in plane $(x + y + z = 0) = -\boldsymbol{e}_x - \boldsymbol{e}_y - \boldsymbol{e}_z$

Reflect in $\boldsymbol{e}_x = a^x \boldsymbol{e}_x - a^y \boldsymbol{e}_y - a^z \boldsymbol{e}_z$

Reflect in $\boldsymbol{e}_y = -a^x \boldsymbol{e}_x + a^y \boldsymbol{e}_y - a^z \boldsymbol{e}_z$

Reflect in $\boldsymbol{e}_z = -a^x \boldsymbol{e}_x - a^y \boldsymbol{e}_y + a^z \boldsymbol{e}_z$

c reflect in $xy = -c^w \boldsymbol{e}_w + c^x \boldsymbol{e}_x + c^y \boldsymbol{e}_y - c^z \boldsymbol{e}_z$

c reflect in $xyz = -c^w \boldsymbol{e}_w + c^x \boldsymbol{e}_x + c^y \boldsymbol{e}_y + c^z \boldsymbol{e}_z$

wx reflect in $yz = \boldsymbol{e}_w \wedge \boldsymbol{e}_x$

wx reflect in $xy = -\boldsymbol{e}_w \wedge \boldsymbol{e}_x$