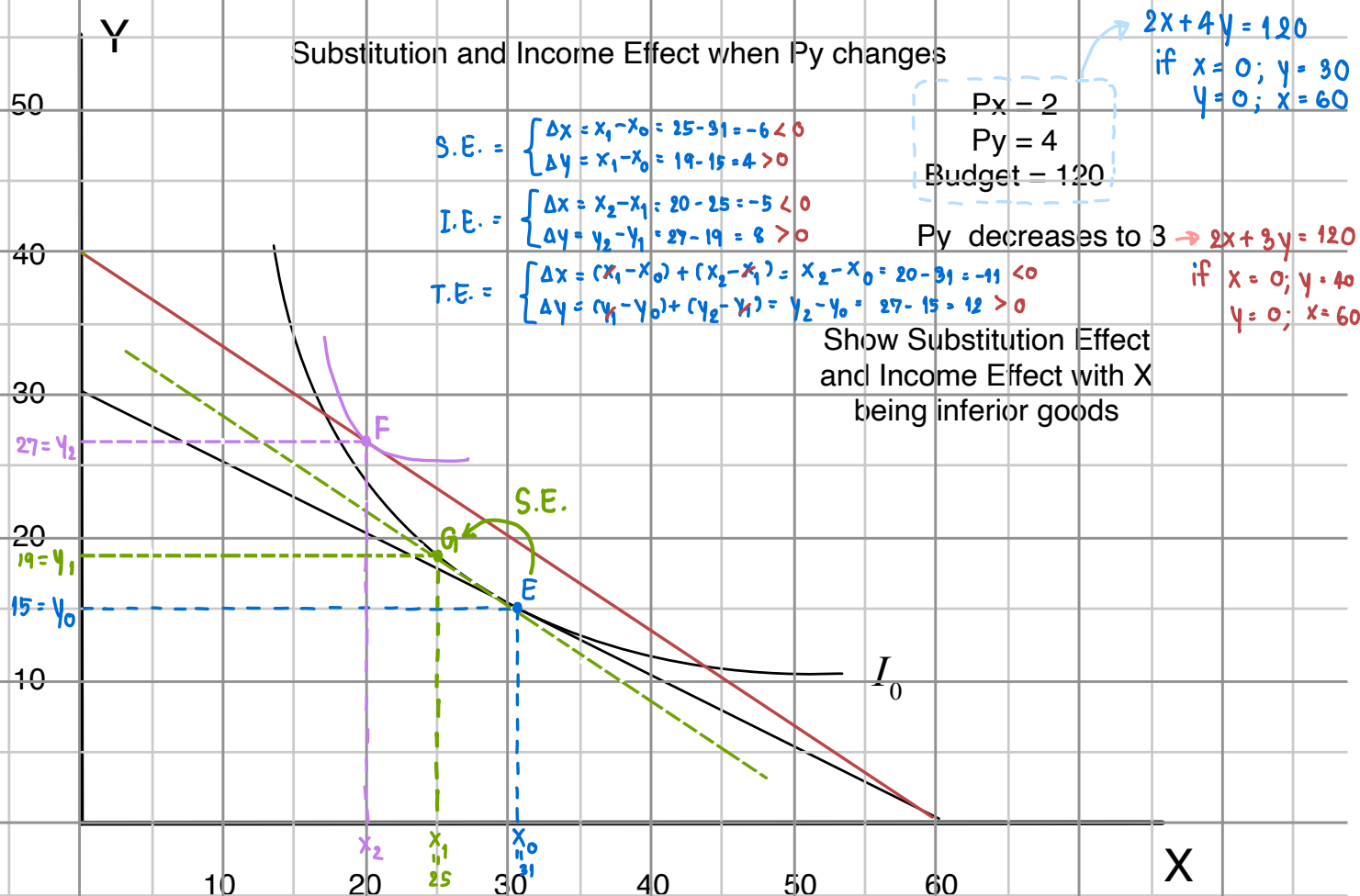
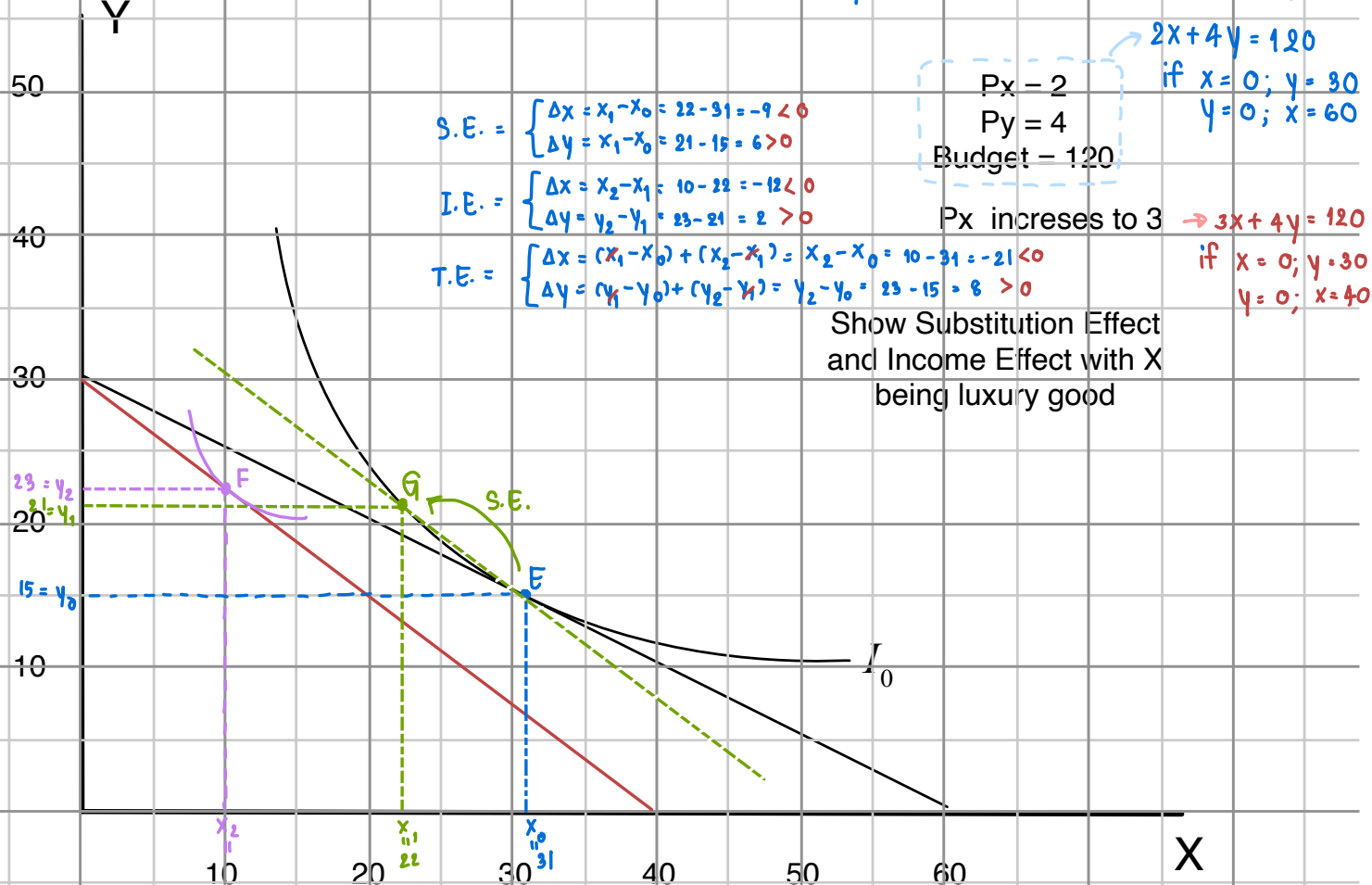




$\therefore$ When P_y decreases, consume less of x and more of y. So x & y are substitute.

When real income is higher, consume less of x & more of y. So x is inferior and y is luxury.



$\therefore$ When P_x increases, consume less of x and more of y. So x & y are substitute.

When real income is lower, consume less of x & more of y. So x is luxury and y is inferior.