$7 \nmid (a^2+b^2)$ ∴ Not possible. The symmetric case is also not possible

• $a=7x+2$ $b=7y+4$ $a^2+b^2=(7x+2)^2+(7y+4)^2=49x^2+28x+4+49y^2+56y+16$

$=7(7x^2+4x+7y^2+8y+2)+6$

$7 \nmid (a^2+b^2)$ ∴ Not possible. The symmetric case is also not possible

• $a=7x+2$ $b=7y+5$ $a^2+b^2=49x^2+28x+4+49y^2+70y+25$

$=7(7x^2+4x+7y^2+10y+4)+1$

$7 \nmid (a^2+b^2)$ ∴ Not possible. The symmetric case is also not possible

• $a=7x+2$ $b=7y+6$ $a^2+b^2=49x^2+28x+4+49y^2+84y+36$

$=7(7x^2+4x+7y^2+12y+5)+5$

$7 \nmid (a^2+b^2)$ ∴ Not possible. The symmetric case is also not possible

• $a=7x+3$ $b=7y+3$ $a^2+b^2=49x^2+42x+9+49y^2+42y+9$

$=7(7x^2+6x+7y^2+6y+2)+2$

$7 \nmid (a^2+b^2)$ ∴ Not possible. ~~The symmetric case is also not possible~~

• $a=7x+3$ $b=7y+4$ $a^2+b^2=49x^2+42x+9+49y^2+56y+16$

$=7(7x^2+6x+7y^2+8y+3)+4$

$7 \nmid (a^2+b^2)$ ∴ Not possible. (The symmetric case is also not possible)

• $a=7x+3$ $b=7y+5$ $a^2+b^2=49x^2+42x+9+49y^2+70y+25$

$=7(7x^2+6x+7y^2+10y+4)+6$

$7 \nmid (a^2+b^2)$ ∴ Not possible (The symmetric case is also not possible)

• $a=7x+3$ $b=7y+6$ $a^2+b^2=49x^2+42x+9+49y^2+84y+36$

$=7(7x^2+6x+7y^2+12y+6)+3$

$7 \nmid (a^2+b^2)$ ∴ Not possible (The symmetric case is also not possible)

• $a=7x+4$ $b=7y+4$ $a^2+b^2=49x^2+56x+16+49y^2+56y+16$

$=7(7x^2+8x+7y^2+8y+4)+4$ $7 \nmid (a^2+b^2)$ (Not possible)