

$$a=7x \quad b=7y+5 \quad a^2+b^2=49x^2+49y^2+70y+25=7(7x^2+7y^2+10y+3)+4$$

$$7x(a^2+b^2) \therefore \text{Not possible. The symmetric case is also not possible}$$

$$a=7x \quad b=7y+6 \quad a^2+b^2=49x^2+49y^2+84y+36=7(7x^2+7y^2+12y+5)+1$$

$$7x(a^2+b^2) \therefore \text{Not possible (The symmetric case is also not possible)}$$

$$a=7x+1 \quad b=7y+1 \quad a^2+b^2=49x^2+14x+1+49y^2+14y+1=7(7x^2+2x+7y^2+2y)+2$$

$$\therefore 7x(a^2+b^2) \therefore \text{Not possible}$$

$$a=7x+1 \quad b=7y+2 \quad a^2+b^2=49x^2+14x+1+49y^2+28y+4=7(7x^2+7y^2+2x+4y)+5$$

$$\therefore 7x(a^2+b^2) \therefore \text{Not possible (The symmetric case is also not possible)}$$

$$a=7x+1 \quad b=7y+3 \quad a^2+b^2=49x^2+14x+1+49y^2+42y+9=7(7x^2+7y^2+2x+6y+1)+3$$

$$\therefore 7x(a^2+b^2) \text{ (Not possible)}$$

$$\text{(The symmetric case is also not possible)}$$

$$a=7x+1 \quad b=7y+4 \quad a^2+b^2=49x^2+14x+1+49y^2+56y+16=7(7x^2+7y^2+2x+8y+2)+3$$

$$a=7x+1 \quad b=7y+5 \quad a^2+b^2=49x^2+14x+1+49y^2+70y+25=7(7x^2+7y^2+2x+10y+3)+5$$

$$7x(a^2+b^2) \text{ (Not possible)}$$

$$\text{(The symmetric case is also not possible)}$$

$$a=7x+1 \quad b=7y+6 \quad a^2+b^2=49x^2+14x+1+49y^2+84y+36=7(7x^2+2x+7y^2+12y+5)+2$$

$$7x(a^2+b^2) \therefore \text{Not possible (The symmetric case is also not possible)}$$

$$a=7x+2 \quad b=7y+2 \quad a^2+b^2=49x^2+28x+4+49y^2+28y+4=7(7x^2+4x+7y^2+4y+1)+1$$

$$\therefore 7x(a^2+b^2) \therefore \text{Not possible}$$

$$a=7x+2 \quad b=7y+3 \quad a^2+b^2=49x^2+28x+4+49y^2+42y+9=7(7x^2+4x+7y^2+6y+1)+6$$