

Pair of Linear Equations in Two varibles Ex 3.11 Q21 Answer:

21. Let the money with first person be Rsx and the money with the second person be Rsy . Then,

$$(x+100) = 2(y-100)$$

$$(y+10)=6(x-10)$$

If first person gives Rs100 to second person then the second person will become twice as rich as first person, According to the given condition, we have,

$$(x+100) = 2(y-100)$$

$$x + 100 = 2y - 200$$

$$x - 2y + 100 + 200 = 0$$

$$x - 2y + 300 = 0 \cdot \cdot \cdot (i)$$

if second person gives $R_{3}10$ to first person then the first person will becomes six times as rich as second person, According to given condition, we have,

$$(y+10)=6(x-10)$$

$$y+10=6x-60$$

$$0 = 6x - 60 - y - 10$$

$$0 = 6x - y - 70 \cdots (ii)$$

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$$y+10=6x-60$$

$$0 = 6x - 60 - y - 10$$

$$0 = 6x - y - 70 \cdots (ii)$$

********* END ********