

then draw these new chromosomes in Figure B; Identify the 2-break in the original chromosomes (i.e. in Figure A) by x marks.

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ORIGINAL

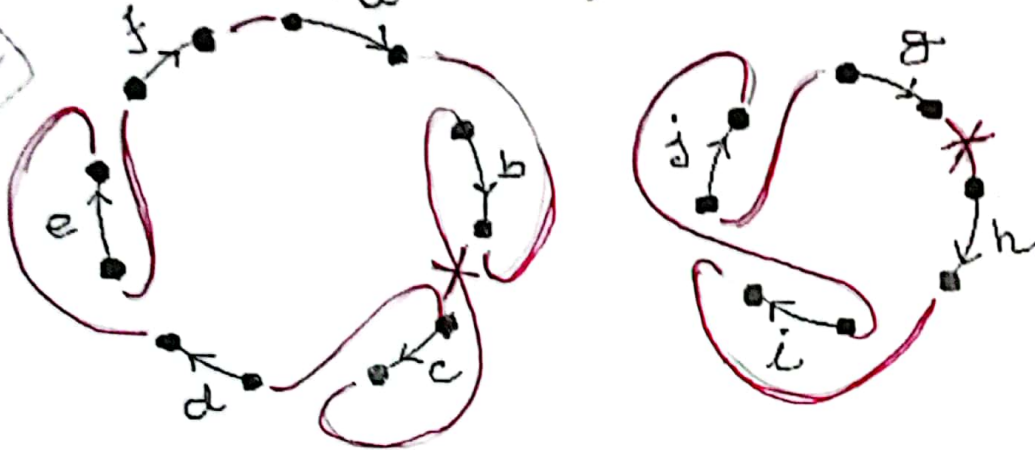


Figure A: Connect the synteny blocks for original chromosomes.

FINAL

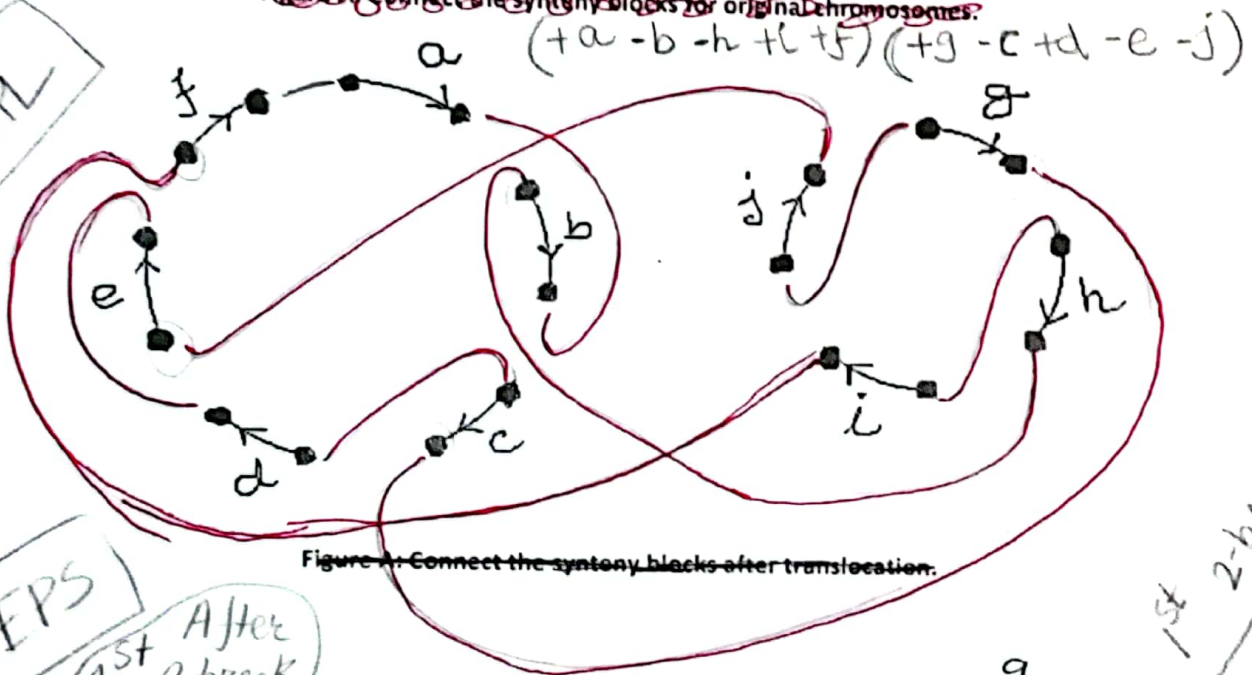
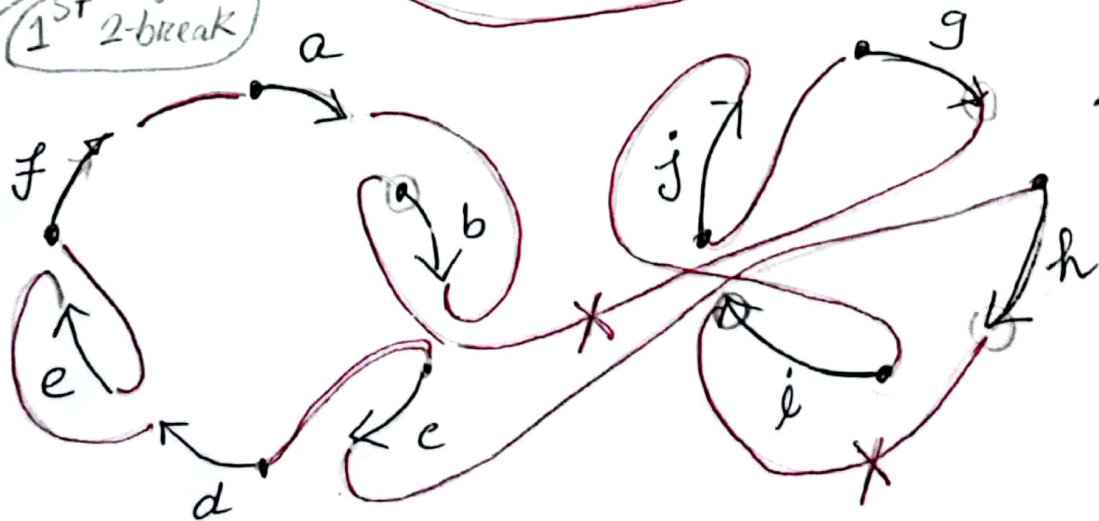


Figure A: Connect the synteny blocks after translocation.

STEPS

After 1<sup>st</sup> 2-break

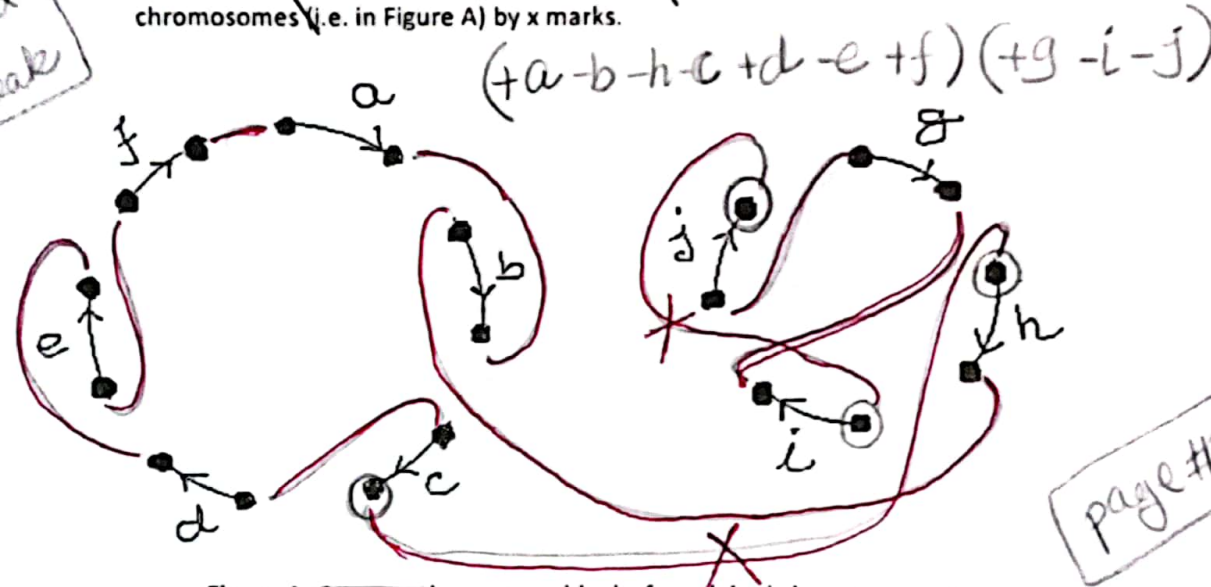


1<sup>st</sup> 2-break applied

(+a -b -g +j +i -h -c +d -e +f)

- b. Due to a translocation if the chromosomes become  $(+a -b -h +l +f)$  and  $(+g -c +d -e -j)$ , then draw these new chromosomes in Figure B; Identify the 2-break in the original chromosomes (i.e. in Figure A) by x marks.

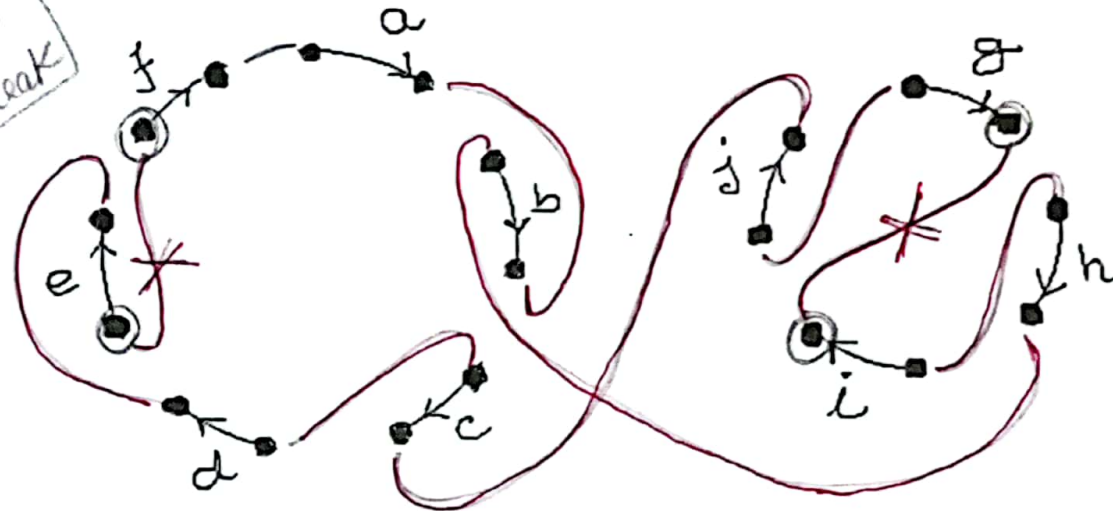
After 2nd  
2-break



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~~Figure A: Connect the synteny blocks for original chromosomes.~~

After 3rd  
2-break



~~Figure A: Connect the synteny blocks after translocation.~~

$(+a -b -h +i -g +j -c +d -e +f)$

b. Due to a translocation if the chromosomes become  $(+a-b-h+i+j)$  and  $(+g-c+d-e-j)$ , then draw these new chromosomes in Figure B; Identify the 2-break in the original chromosomes (i.e. in Figure A) by x marks

After 4<sup>th</sup> 2-break

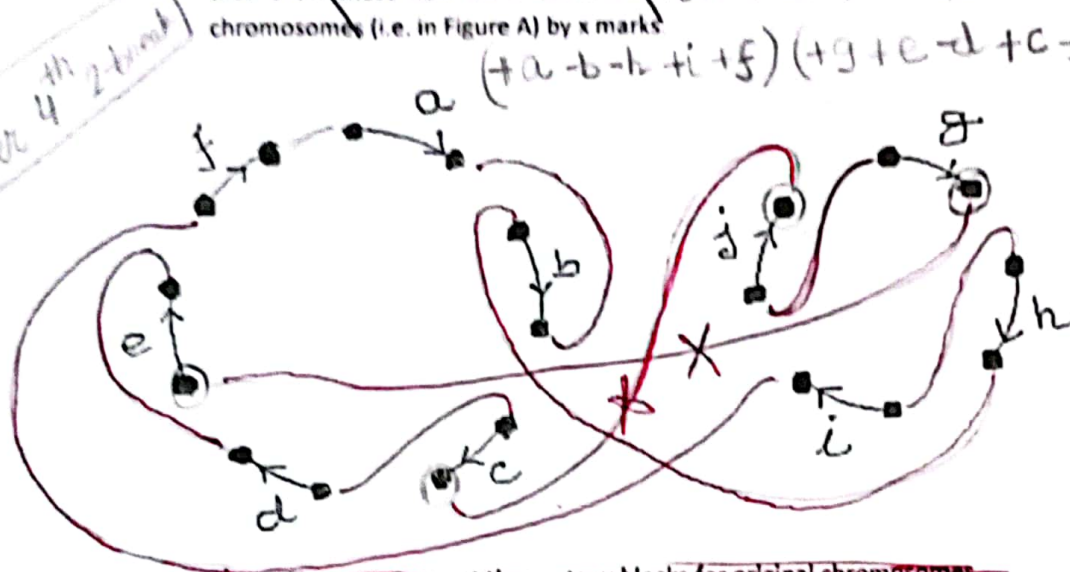


Figure A: Connect the synteny blocks for original chromosomes.

After 5<sup>th</sup> 2-break

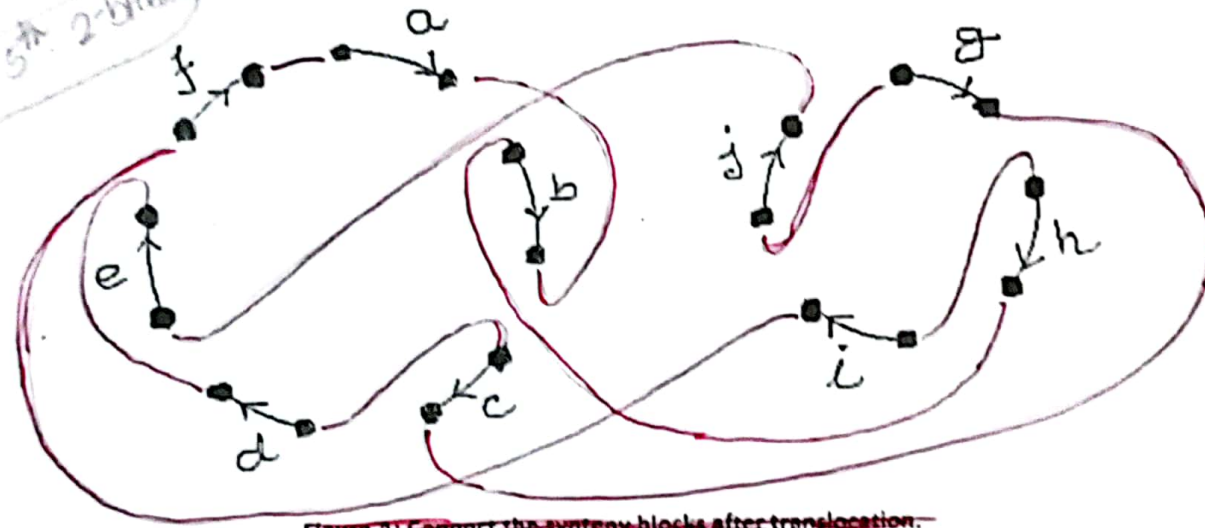


Figure A: Connect the synteny blocks after translocation.

$$(+a-b-h+i+f)(+g-c+d-e-j) \checkmark$$