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Exercise - 10.3

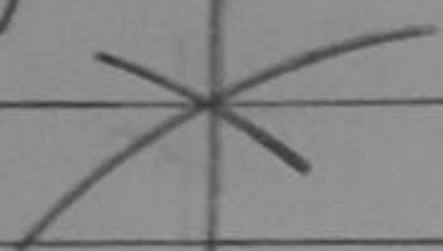
1. દિੱર રેખા s થિંરે મડે ડિમ ડિપર થિંરુ P છડિ. થિંરુ P ડે રેખા s ડિપર લેંઘ થિંરે.

- (i) ફેટે મડે યરરાર રુમાર (ii) ફેટે મડે મેંટ મરેમર રુમાર

Draw a line s and mark a point P on it. Construct a line perpendicular to s at point P .

- (i) Using a ruler and compasses
(ii) Using a ruler and a set square

(i)



(ii)



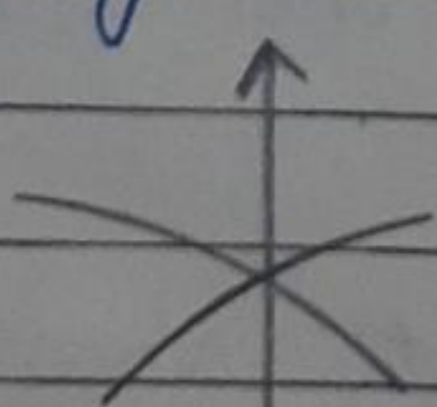
2. દિੱર રેખા p થિંરે મડે ડિમ ડિપર થિંરુ Z છડિ. p ડિપર થિંરુ Z ડે લેંઘ થિંરે.

- (i) ફેટે મડે યરરાર રુમાર (ii) ફેટે મડે મેંટ મરેમર રુમાર

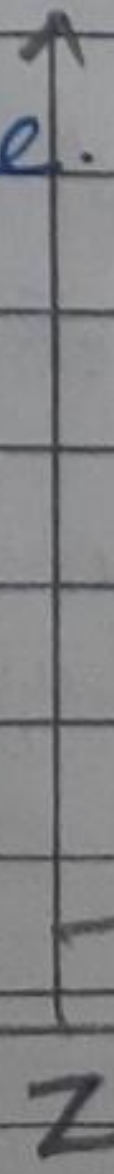
Draw a line p and mark a point Z above it. Construct a line perpendicular to p , from the pt Z .

- (i) Using a ruler and compasses
(ii) Using a ruler and a set square.

(i)

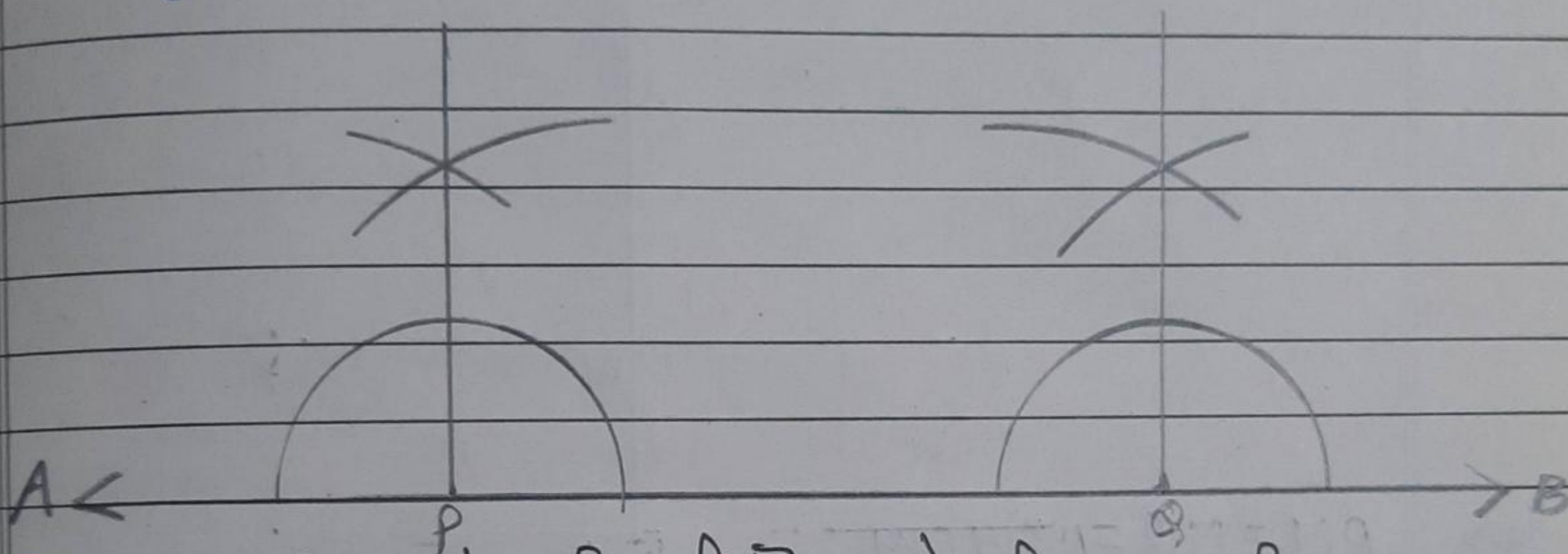


(ii)



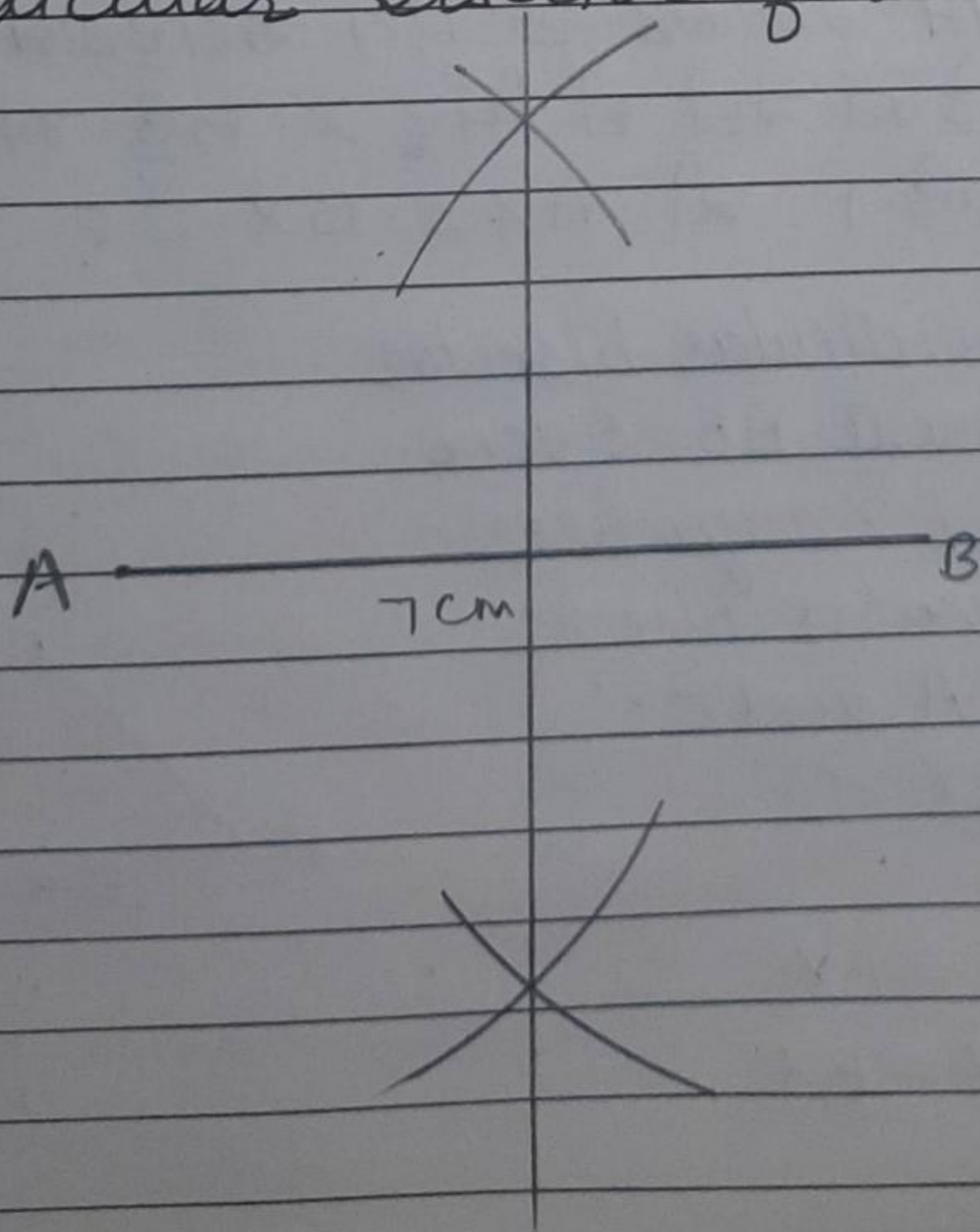
3. દિੱર રેખાખંડ AB થિંરે મડે રેખા રે રેરે પામે થિંરે P મડે Q રહિ. થિંરુમાં P મડે Q રે રેખા AB 'રે રેરે મડે પરરાર તાસ રંધ થિંરે।

Draw a line AB and mark two points P and Q on either side of line AB , construct two lines perpendicular to AB , from P and Q using a ruler and compasses



4. 1 મમ રંધા રેખાખંડ થિંરે મડે રિમર રંધ મમરુત્તાર થિંરે।

Draw a line segment of 7cm and draw perpendicular bisector of this line segment



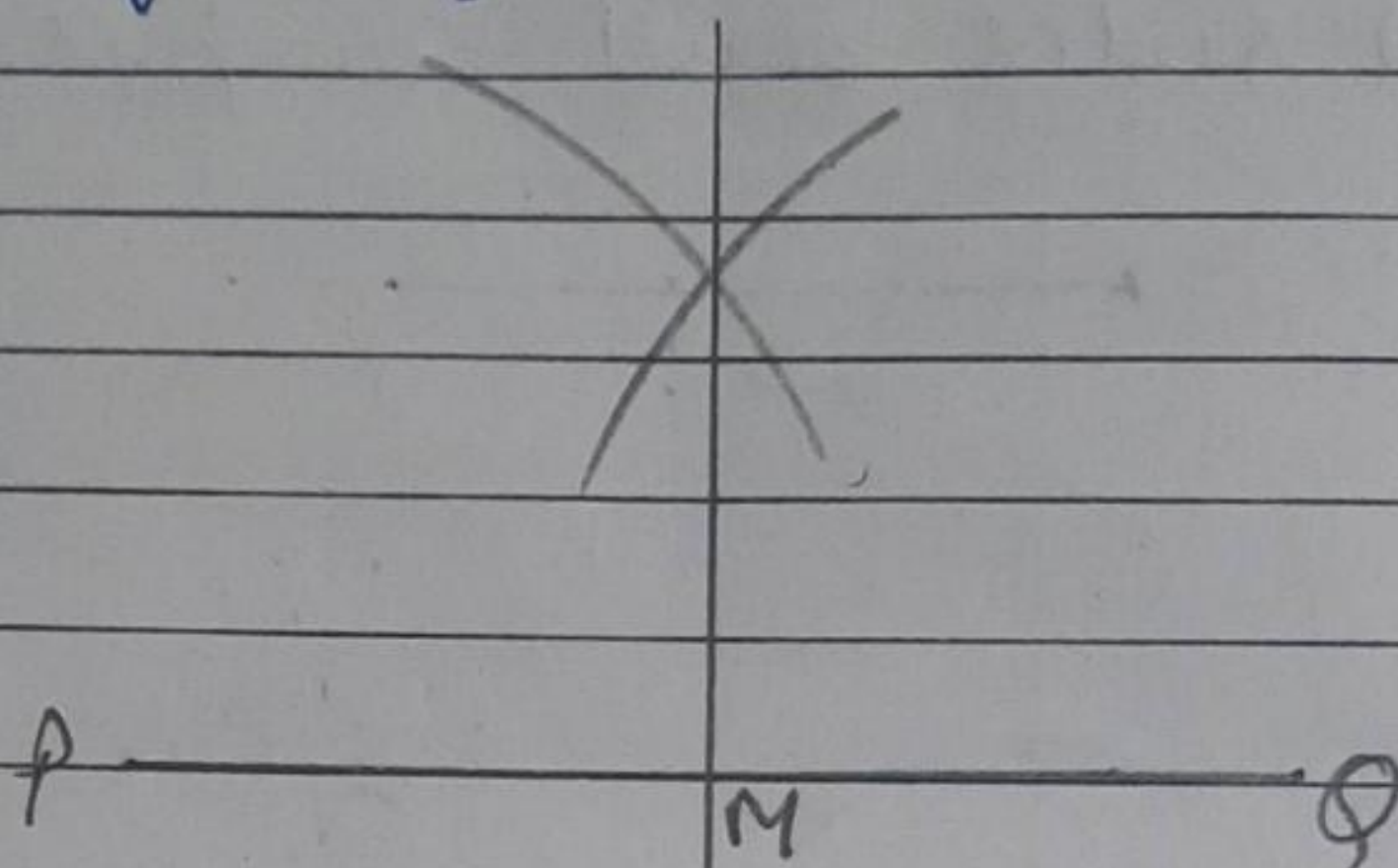
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5. $PQ = 6.8$ સમ દા ગંધાઈલ બિંદુ અને દિશા લંબ સમદુરતી
 XY બિંદુ, જે PQ નું M 'ਤੇ વેટલ છે। PM અને QM નું
 માપો। શી $PM = QM$ છે?

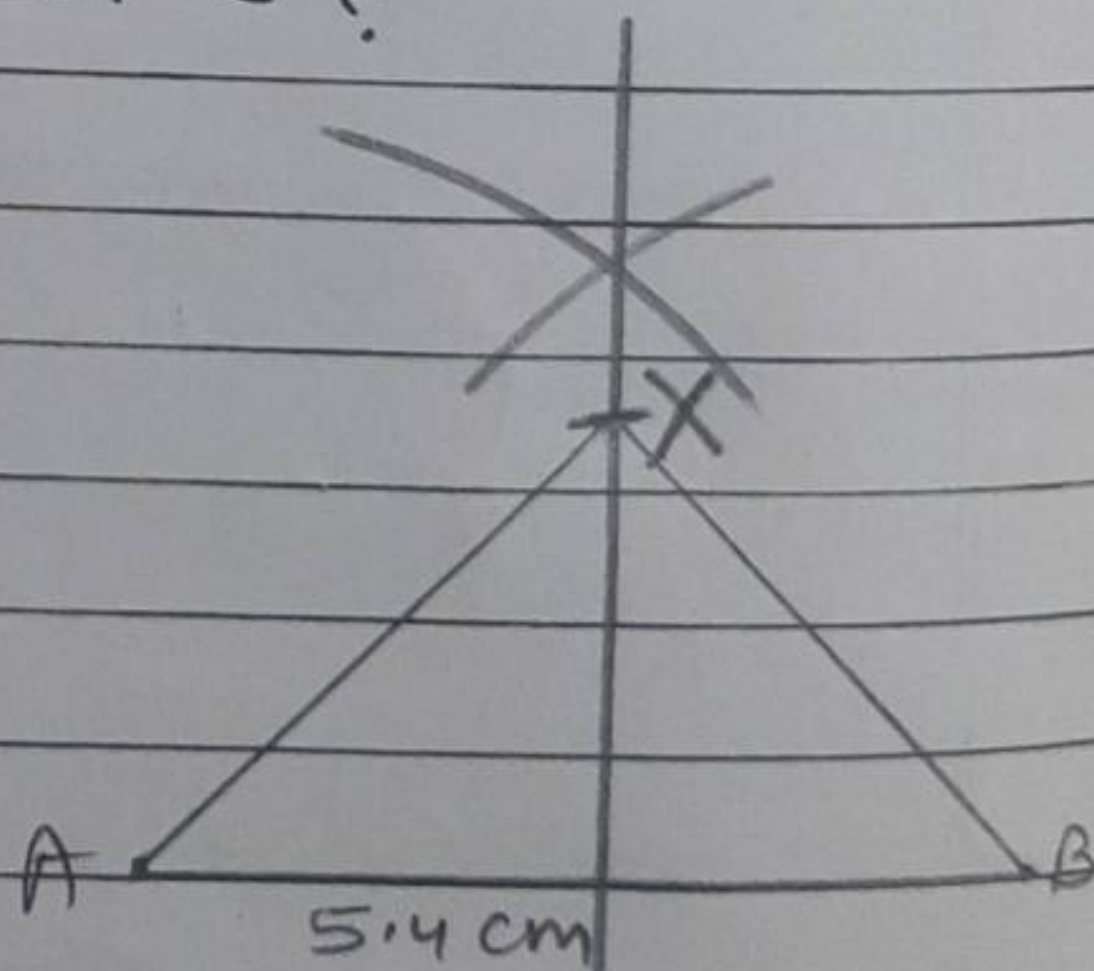
Draw a line segment $PQ = 6.8 \text{ cm}$ and draw its
 perpendicular bisector XY which bisect PQ at M .
 Find The length of PM and QM . Is $PM = QM$?



Ans → $PM = MQ = 3.4 \text{ cm}$
 જી, PM અને QM બરાબર છે।
 Yes, Both are equal.

6. $AB = 5.4$ સમ ગંધાઈલ દા લંબ સમદુરતી બિંદુ। લંબ
 સમદુરતી ઉપર રેખી થી બિંદુ X લઉ અને X નું A અને B
 તાલ મિલાડે। શી $AX = BX$ છે?

Draw perpendicular bisector
 of line segment $AB = 5.4 \text{ cm}$.
 Mark point X anywhere
 on perpendicular bisector
 join X with A and B .
 Is $AX = BX$?



Ans → જી, $AX = BX$
 yes, $AX = BX$

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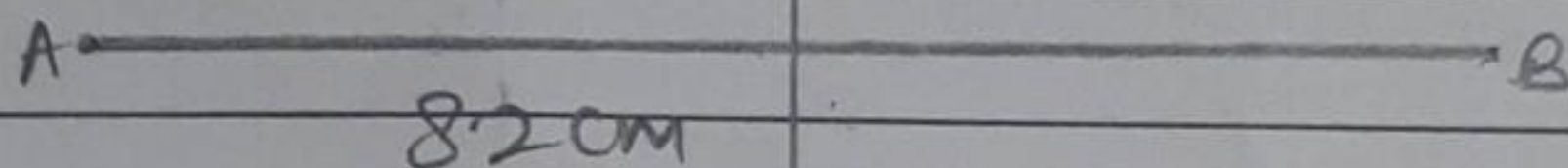
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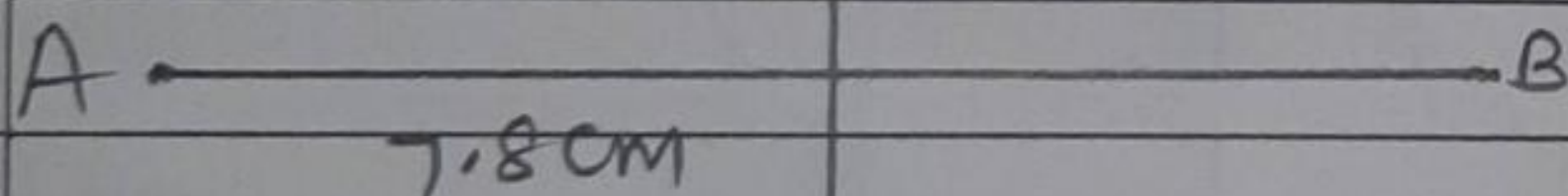
7. ਜੇਠਾਂ ਵਿੱਤੀਆਂ ਲੰਬਾਈਆਂ ਦੇ ਰੇਖਾਖੰਡ ਦਾ ਲੰਬ ਸਮਦੁਰਭਾਸ਼ਕ
ਖਿੱਚੋ।

Draw perpendicular bisectors of line segment
of the following lengths :

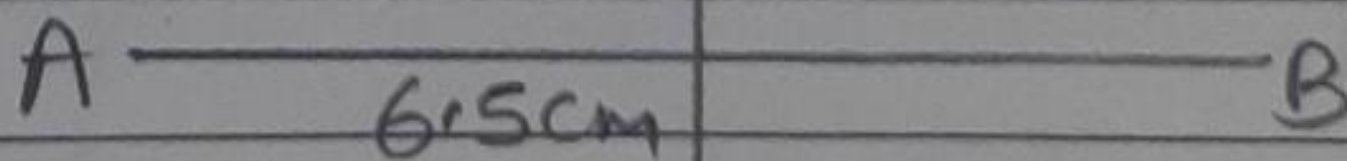
(i) 8.2 cm



(ii) 7.8 cm



(iii) 6.5 cm



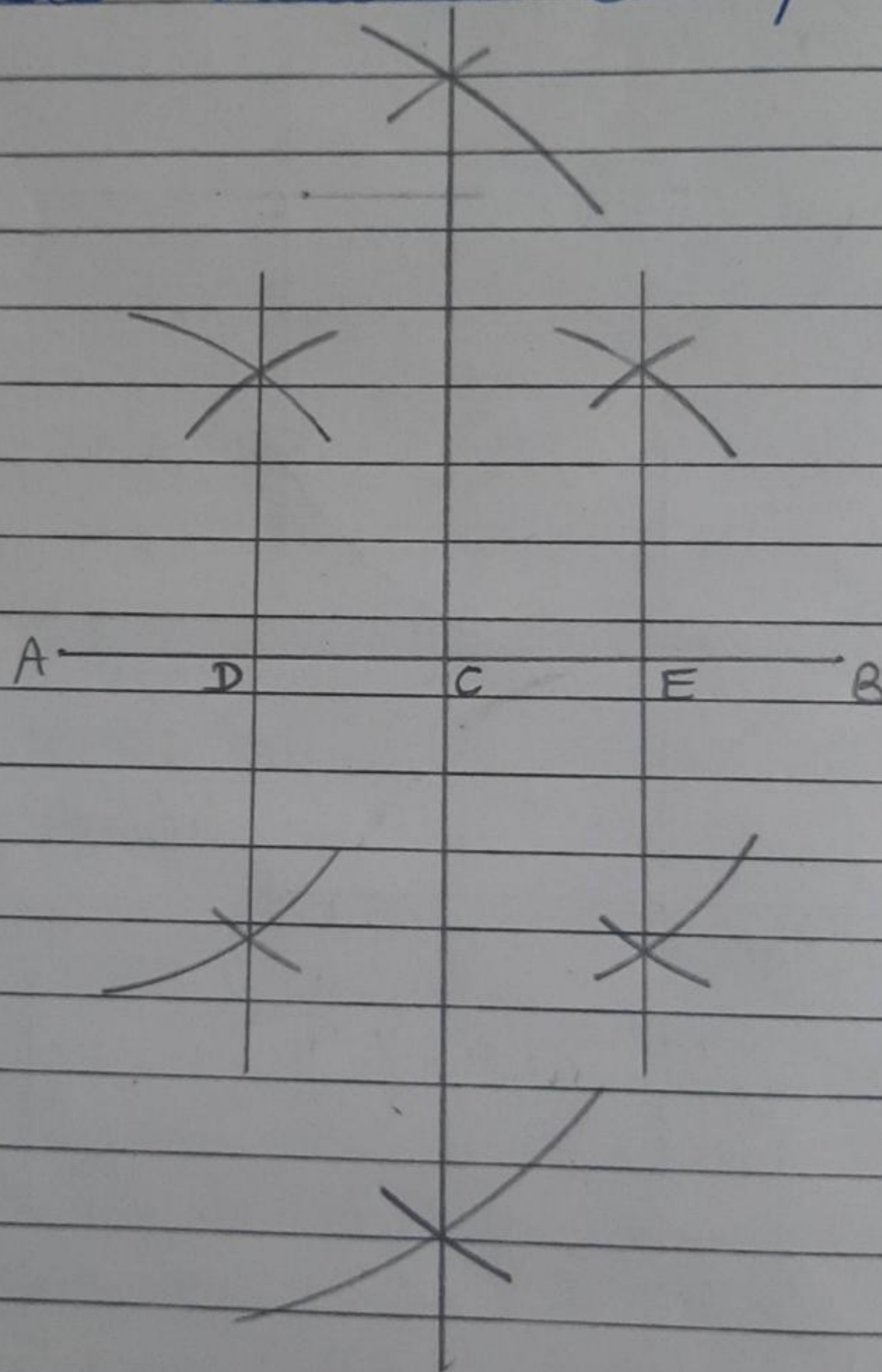
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8. 8 ਸਮ ਲੰਬਾ ਰੇਖਾਖੰਡ ਖਿੱਚੋ ਅਤੇ ਪਰਕਾਰ ਦੀ ਮਾਪਣੀ ਨਾਲ ਇਸਨੂੰ ਚਾਰ ਬਰਾਬਰ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡੋ। ਹਰੇਕ ਭਾਗ ਨੂੰ ਮਾਪੋ।

Draw a line segment of length 8cm and divide it into four equal parts using compasses. Measure each part.



$$AD = DC = CE = EB = 2\text{cm}$$