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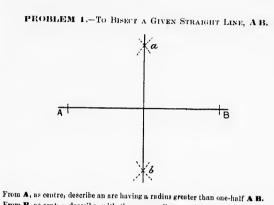
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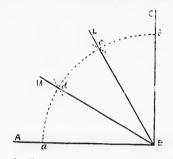


From B, as centre, describe an arc naving a radius greater than one-half A B. From B, as centre, describe, with the same radius, another arc cutting the former in A and b.

Join, by a straight line, the points of intersection a, b.

The line a b will bisect A B and will itself also be bisected at the same point.

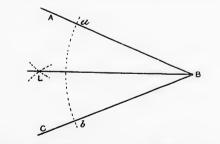
PROBLEM 3 .- TO TRISECT THE GIVEN RIGHT ANGLE A B C.



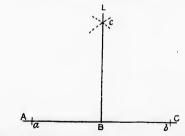
With B as contre, describe any are cutting the sides A B, BC, in a and b. With the same radius and the centres a, b, describe ares cutting the arc a b in e and d.

The straight lines BL BM, joining B to e and d, will trisect the right angle, ABC.

PROBLEM 2 .- TO BISECT A GIVEN ANGLE, ABC.



With **B** as centre, describe any arc outling the lines **A B**, **B C**, in **a** and **b**. From **a** and **b** as centres, with any length as radius, describe arcs meeting in **L**. The straight line **L B** will bisect the given angle **A B C**. PROBLEM 4.-FROM A GIVEN POINT B, IN A STRAIGHT LINE A C, TO DRAW A PERPENDICULAR TO THE LINE,



Make **Ba** equal to **H** b and from the points a and b as centres, describe equal area meeting in **c**. The straight line **B** L, joining **B** to **c**, will be the required perpendicular.