



PROBLEM 3.—At a given point *N* in the given line *EF*, to make an angle equal to the given angle *TLH*.

- 1.—With centre *L* and any radius describe an arc *KM*.
- 2.—With centre *N* and the same radius describe an arc *BR*.
- 3.—With centre *B* and the distance *KM* cut off *BD*.
- 4.—From *N* draw a line through *D*; then the angle *DNE* will be equal to the given angle *TLH*.

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NOTE.—When the given angle as *ASC* is very obtuse, accuracy is more easily obtained as follows:—Produce either side of the given angle as *AS* to *Y*, forming the acute angle *CSY*. At the point *X* in the given line *VW* make an angle *VXP* equal to *CSY*; then *PXW* will be equal to *ASC*.

PROBLEM 4.—To draw a perpendicular from a given point *N*, in a given straight line *EF*.

- 1.—From centre *N*, with any radius describe a long arc cutting *EF* in *H*. (Keep the same radius till the problem is finished.)
- 2.—From *H* cut the arc in *L*, and from *L* cut it again in *T*.
- 3.—From *L* and *T* describe arcs to intersect in *K*.
- 4.—A line from *N* through *K* will be perpendicular with *EF*.