

CONSTRUCTION OF 50° USING RULER AND PENCIL ONLY

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CERTIFICATE

Certified that this is a bonafide work done by DON JOAN , Standard IX, Santa Maria Senior Secondary School, Santhome, affiliated to CBSE (Affi. No. 930555), during the academic year 2010-2011.

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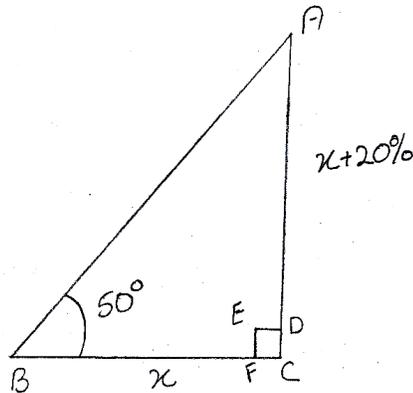
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ABSTRACT

Here I am presenting the construction of an angle of 50° without using a compass or a protractor.

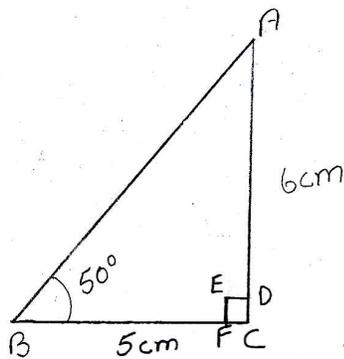
Steps of Construction :

1. Draw a line segment $BC = x$ cm
2. Draw a perpendicular AC at C with $AC = x + 20\%$ of x (we can draw a perpendicular using a pencil and a scale. For that draw a square $CDEF$ whose side is 0.5 cm at C)
3. Extend the line CD to A with $AC = x + 20\%$ of x
4. Join AB . Then $\angle ABC = 50^\circ$



Example :

1. Draw a line segment $BC = 5\text{cm}$
2. Draw a square $CDEF$ at C whose side is 0.5cm . We get $\angle FCD = 90^\circ$.
Extend the line CD to point A with $AC = 5 + 20\%$ of $5 = 5 + 1 = 6$
3. Join AB . Then $\angle ABC = 50^\circ$



Reference

Self done