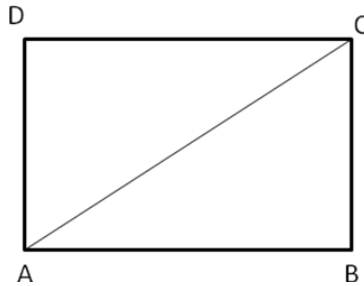
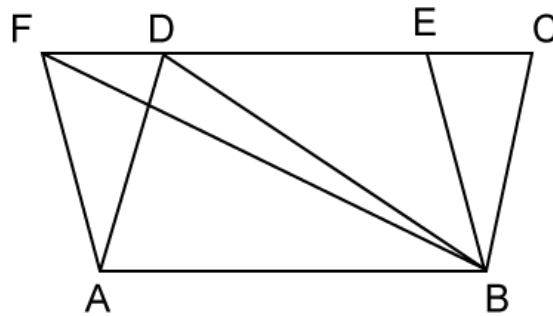


Q. 10.

- (a) In rectangle ABCD; AB = 15cm and $m\angle BAC = 30^\circ$. Find the length of the BC. [3]



- (b) In the given figure, area of $\parallel\text{gm ABCD}$ is 80 cm^2 . Find (i) $\text{ar}(\parallel\text{gm ABEF})$ (ii) $\text{ar}(\triangle ABD)$ and (iii) $\text{ar}(\triangle BEF)$.



- (c) Two alternate sides of a regular polygon, when produced, meet at right angles. [4]
Find:
i. Each external angle
ii. The number of sides

Q. 11.

(a) Find x: $\sqrt[3]{\frac{p}{q}} = \left(\frac{p}{q}\right)^{3-4x}$ [3]

- (b) If $a + b = 1$ and $a - b = 7$, find the values of [3]
(1) $5(a^2 + b^2)$
(2) a

- (c) In $\triangle AOB$, $A = (0, 4)$, $O = (0, 0)$ and $B = (3, 0)$. By plotting these points on a graph paper, find the area of $\triangle AOB$. [4]