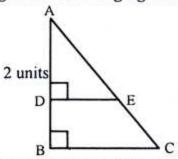
Chapter-15: Area related Theorems and Constructions

Answer to the question no. (300 - 301) according to the following figure:



AD = BD, AE = CE, CE = 2.5 unit

300. BC = what?

(a) 3

(b) 4

© 5

(d) 6

301. DE = what?

(a) 3

(b) 2.5

© 2

@ 1.5

302. What is the area of the region of square when perimeter is 20 metres?

(a) 36

(b) 25

© 16

@ 9

303. The length is twice of the width of a rectangular and perimeter is 60 metres, what will be the width?

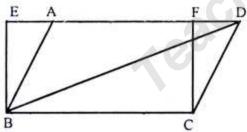
a 5

(b) 10

© 12

@ 20

304.



If in the figure, BE || CF, BC || AD and AB | CD -

i. $\triangle ABC = \triangle ABD$

ii. $\triangle ABC = \triangle BCD$

iii. ΔBCD = ΔACF

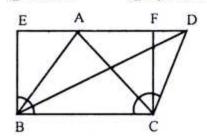
Which one of the following is correct?

(a) i & ii

(b) i & iii

© ii & iii

@ i, ii & iii



BC || DE and AB || CD

305. In the figure-

Δ region ABC = Δ region BDC

ii. ∆ region BDC = ☐ region BCFE

iii. ABCD = ☐ region BCFE

Which one of the following is correct?

@ i & ii

(b) i & iii

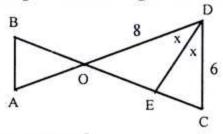
© ii & iii

@ i, ii & iii

0

0

Answer the question no. (306 - 307) according to the following information:



Here, AB || DC

306. Which one is correct?

(a)
$$\frac{OA}{OD} = \frac{OB}{OC}$$
 (b) $\frac{OD}{OB} = \frac{OC}{OA}$

$$\frac{OC}{OB} = \frac{AB}{CD}$$

Explain: ΔAOB and ΔCOD is similar.

$$\frac{OD}{OB} = \frac{OC}{OA} = \frac{CD}{AB}$$

307. CE : OE = what?

(a) 11

0

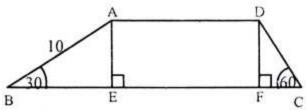
0

(b) x x

© 34

@ 86

Answer to the question no. (308 - 309) according to the following information:



308. What is the value of AE?

(a) 5

ⓑ 5√2

© 10V2

309. What is the value of CD?

(a) $\frac{\sqrt{3}}{10}$ (b) 2.5 (c) $\frac{10}{\sqrt{3}}$ (d) 10