

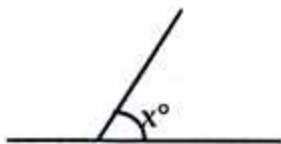
Chapter-4: Geometric Constructions

76. What is the value of half of the supplementary angle of 70° ?

- (a) 110° (b) 55°
(c) 20° (d) 10°

(b)

77.



If $\angle x = 40^\circ$, what is the value of half of the supplementary angle of $\angle x$?

- (a) 75° (b) 70°
(c) 65° (d) 60°

(b)

78. If the vertical angle of a right angled triangle is 30° , then what will be the other angle in degree?

- (a) 30 (b) 40
(c) 60 (d) 70

(c)

79. If one side of an equilateral triangle is extended. What will be the value of the derived angle in degree?

- (a) 180 (b) 160
(c) 120 (d) 100

(c)

80. If the ratio of a triangle's sides is 6 : 8 : 10, then what will be the measurement of the greater angle in degree?

- (a) 60 (b) 90
(c) 120 (d) 180

(b)

81. If a triangle's base, vertical angle and sum of the other two sides are provided, how many triangles can

be drawn in many cases?

- (a) Infinite (b) 6
(c) 4 (d) 2

(d)

82. How many tangents can be drawn in a point on the circumference of a circle?

- (a) 1 (b) 2
(c) 3 (d) 4

(a)

83. If only a side's length is given—

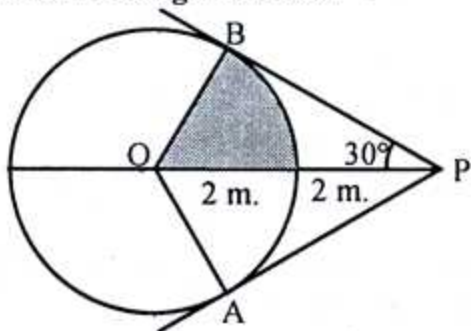
- i. An equilateral triangle can be drawn
ii. A square can be drawn
iii. A rectangle can be drawn

Which of the following is correct?

- (a) i & ii (b) i & iii
(c) ii & iii (d) i, ii & iii

(a)

Answer question number 84 & 85 from the information given below—



84. What is the length of PB?

- (a) $\sqrt{21}$ m. (b) $\sqrt{29}$ m.
(c) 21 m. (d) $2\sqrt{3}$ m.

(d)

85. What is the area of the darkened portion?

- (a) $\frac{2\pi}{3}$ sqm. (b) π sqm.
(c) $\frac{3\pi}{2}$ sqm. (d) 4π sqm.

(a)