



1. In  $\triangle NOP$ , right angled at O, if  $\tan N = \frac{1}{2}$ , find  $\sin N \cos P + \cos N \sin P$

- (i) 1 (ii)  $\sqrt{5}$  (iii)  $\frac{2}{5}\sqrt{5}$  (iv)  $\frac{1}{2}\sqrt{5}$  (v)  $\frac{1}{5}\sqrt{5}$

2. In  $\triangle MNO$ , right angled at N, if  $\tan M = \frac{1}{9}$ , find  $\cos M \cos O - \sin M \sin O$

- (i)  $\frac{1}{82}\sqrt{82}$  (ii)  $\sqrt{82}$  (iii) 0 (iv)  $\frac{1}{9}\sqrt{82}$  (v)  $\frac{9}{82}\sqrt{82}$

3. Find the length of the side of a 9-sided regular polygon inscribed in a circle of radius 1 m

- (i) 0.5840 m (ii) 0.7340 m (iii) 0.7840 m (iv) 0.6840 m

4. Find the length of the chord of the unit circle subtending an angle of  $116^\circ$  at the centre

- (i) 1.7900 (ii) 1.7400 (iii) 1.6900 (iv) 1.5900

5. Find the area of the right angled triangle with hypotenuse 5 cm and one of the acute angle being  $33^\circ$

- (i) 7.7095 cm (ii) 6.7095 cm (iii) 4.7095 cm (iv) 5.7095 cm

6. Find the area of an isosceles triangle with base 4 cm and vertical angle  $48^\circ$

- (i) 10.9847 cm (ii) 8.9847 cm (iii) 9.9847 cm (iv) 7.9847 cm

7. If V, W and X are the interior angles of a triangle, then  $\sin\left(\frac{V+W}{2}\right) =$

- (i)  $\sin X$  (ii)  $\sin\left(\frac{X}{2}\right)$  (iii)  $\cos\left(\frac{V}{2}\right)$  (iv)  $\cos\left(\frac{X}{2}\right)$  (v)  $\sin\left(\frac{V}{2}\right)$

## Assignment Key

1) (i)

2) (iii)

3) (iv)

4) (iii)

5) (iv)

6) (ii)

7) (iv)

Copyright © Small Systems Computing Pvt. Ltd.