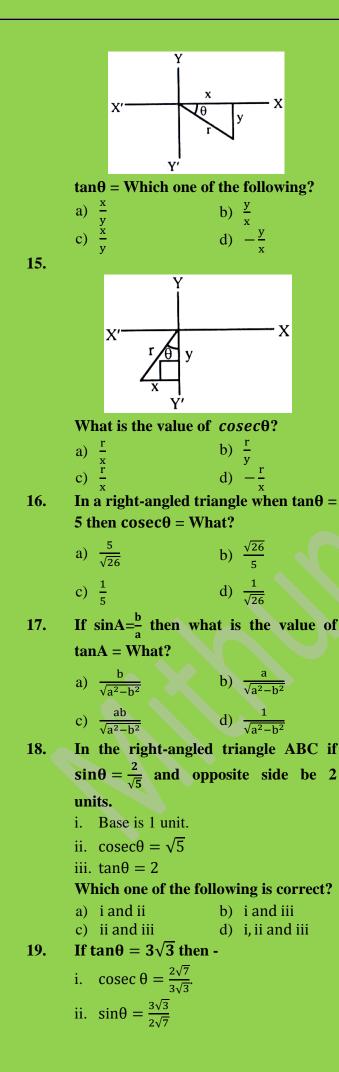
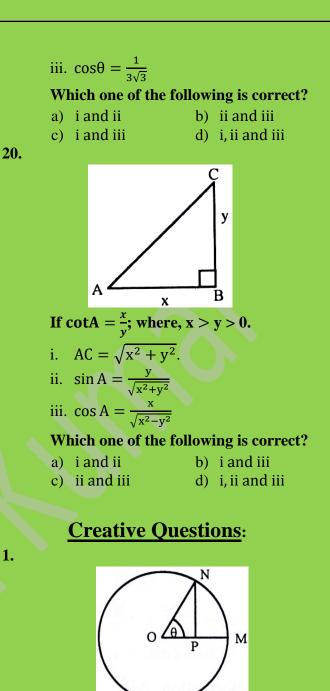
c) $\sqrt{2}$ d) $\sqrt{3}$ Work Sheet- 2 If $\cos\theta = \frac{1}{2}$ and $\sin\theta = \frac{\sqrt{3}}{2}$ then what 9. **Class-Nine** is the value of $\cot\theta$? **Chapter-Eight** a) $\frac{1}{\sqrt{3}}$ b) $\frac{1}{2}$ **Exercise-8.2** c) 1 d) $\sqrt{3}$ **Trigonometry** If $\cos\theta = \frac{1}{\sqrt{2}}$ then what is the value of 10. **Creative Multiplication Choice Questions** secθ? If $\sin\theta = \frac{1}{2}$ then what is the value of 1. a) $\frac{1}{\sqrt{2}}$ b) $\sqrt{2}$ $tan(-\theta)$? d) $3\sqrt{2}$ c) $2\sqrt{2}$ b) $\frac{1}{\sqrt{5}}$ d) $\frac{2}{\sqrt{3}}$ 11. a) √3 c) $\sqrt{5}$ 2. Which one of the following is the trigonometric ratio of $\sin\theta$? 3 Perpendicular Perpendicular b) a) Hypotenuse Base Base Base d) Hypotenuse c) B Perpendicular 3. Which one of the following is the In the figure AB = 3 and AC = 5 then trigonometric ratio of $tan\theta$? $tan\theta = What?$ Perpendicular Base a) b) $\frac{3}{4}$ Hypotenuse Hypotenuse a) Perpendicular Base d) Perpendicular d) $\frac{1}{5}{3}$ c) Base c) In the right-angled triangle ABC if 4. 12. $\sin\theta = \frac{1}{2\sqrt{2}}$ and opposite side is 1 unit then what is the adjacent side? b) $2\sqrt{2}$ a) 1 5 c) $\sqrt{7}$ d) $\sqrt{8}$ 5. In the right-angled triangle ABC if $\sec\theta = 3$ and adjacent side is 1 unit в 12 then what is the length of the opposite side? What is the value of secθ? a) 1 b) $\sqrt{3}$ b) $\frac{12}{13}$ a) d) 3 c) $\sqrt{8}$ If sin2A = cosA then the value of A is -6. c) $\frac{13}{12}$ d) $\frac{13}{5}$ b) $\frac{\pi}{\frac{6}{\pi}}$ d) $\frac{\pi}{2}$ a) $\frac{\pi}{\frac{3}{\pi}}$ 13. c) If $\sin\theta = \frac{1}{2}$ then what is the value of 17 7. 8 cosecθ? a) $\frac{1}{2}$ b) 1 What is the value of $cot\theta$? c) 2 d) $2\sqrt{3}$ 8 b) a) 17 If $\sin\theta = \cos\theta = \frac{1}{\sqrt{2}}$ then what is the 8. $\frac{15}{17}$ d) $\frac{15}{8}$ value of $tan\theta$? c) a) $\frac{1}{\sqrt{2}}$ 14. b) 1

~ 1





In the figure, O is the centre of a circle and OM = arc MN.

- a) Express θ in degree.
- b) Prove that θ is a constant angle.
- c) Determine for what value of θ , $\frac{PN}{ON} + \frac{OP}{ON} = \sqrt{2}$, where $0 < \theta < 2\pi$.
- 2. Given, $A = \sec\theta \tan\theta$
 - a) If $\theta = \frac{\pi}{4}$, what is the value of $A^2 + 2A$.

b) Prove that,
$$\sin\theta = \frac{1-A^2}{1+A^2}$$

- c) Show that $\frac{\sin\theta \cos\theta + 1}{\sin\theta + \cos\theta 1} = \frac{1}{A}$
- SING+C0SG-1 A

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